



力准传感 引领未来
Ligent Sensor Lead the Future



深圳市力准传感技术有限公司

地址：深圳市龙岗区横岗228工业区17栋3楼
电话：0755-8923 3819 / 8923 3406 传真：0755-8923 3919
Shenzhen Ligent Sensor Tech Co., Ltd
Add(shenzhen): No.3 Floor, 17th Building 228 Industrial
Zone, HengGang, LongGang, shenzhen China, 518115
Tel: +86 755 8923819 89233406 Fax: +86 755 89233919

苏州办事处地址：江苏省苏州昆山市花桥镇亚太广场4号2510
电话：0512-5035 3133 公司网站：www.ligentcn.com
邮箱：info@ligentcn.com

Add(SuZhou): No.2510, 4# Building, Yatai square, Huaqiao
Town, Kunshan, Suzhou China
Tel: +86 513-50353133
Web site: www.ligentcn.com Email: info@ligentcn.com



欢迎进入力准传感世界
Welcome to Ligent
Sensor world

深圳市力准传感技术有限公司
SHENZHEN LIGENT SENSOR TECH CO.,LTD



力准传感 引领未来

Ligent Sensor Lead the Future

企业简介 COMPANY PROFILE

深圳市力准传感技术有限公司是一家专门从事力值测量技术研究、产品研发生产、销售和服务为一体的国家级高新技术企业，主要从事于传感器、变送器、控制仪表的研发生产和提供系统工程控制的解决方案。公司拥有现代化的宽敞厂房，先进的生产和检测设备，专业的研发团队以及完善的管理体系。公司现已取得 ISO9001 质量管理体系认证和多项产品 ROHS、CE 认证。

凭借三十多年在力值测量领域方面的先进技术和经验，目前公司设计生产的系列微型拉 / 压力传感器、三维力传感器、测力

传感器、压力变送器、放大器、控制仪表等达百余种，并已获得多项国家专利。产品广泛应用于各种工业自动化生产线、机器人、冶金以及医疗等新型和智能化高端领域。通过不断的改进完善，我们的产品因其高稳定和灵敏性，可完全替代国外同类的产品。

我们的企业宗旨：为智能制造企业，提供最有“力”的服务，最精“准”的产品，成为自动化、智能制造业的首选力值测量品牌。

经营理念：与客户共赢，与员工共享，助力于中国自动化行业的发展。

Shenzhen Ligent Sensor Tech Co., Ltd. is a national high-tech enterprise specializing in force measurement technology research and product development, production, sales and services, mainly engaged in the R&D and production of sensors, transmitters and control instrument, and providing solutions for engineering control system. We have modern spacious factory buildings, advanced production and testing equipment, professional R&D teams and management system. Also, we have now achieved ISO9001 quality management system certification and a number of ROHS and CE product certifications.

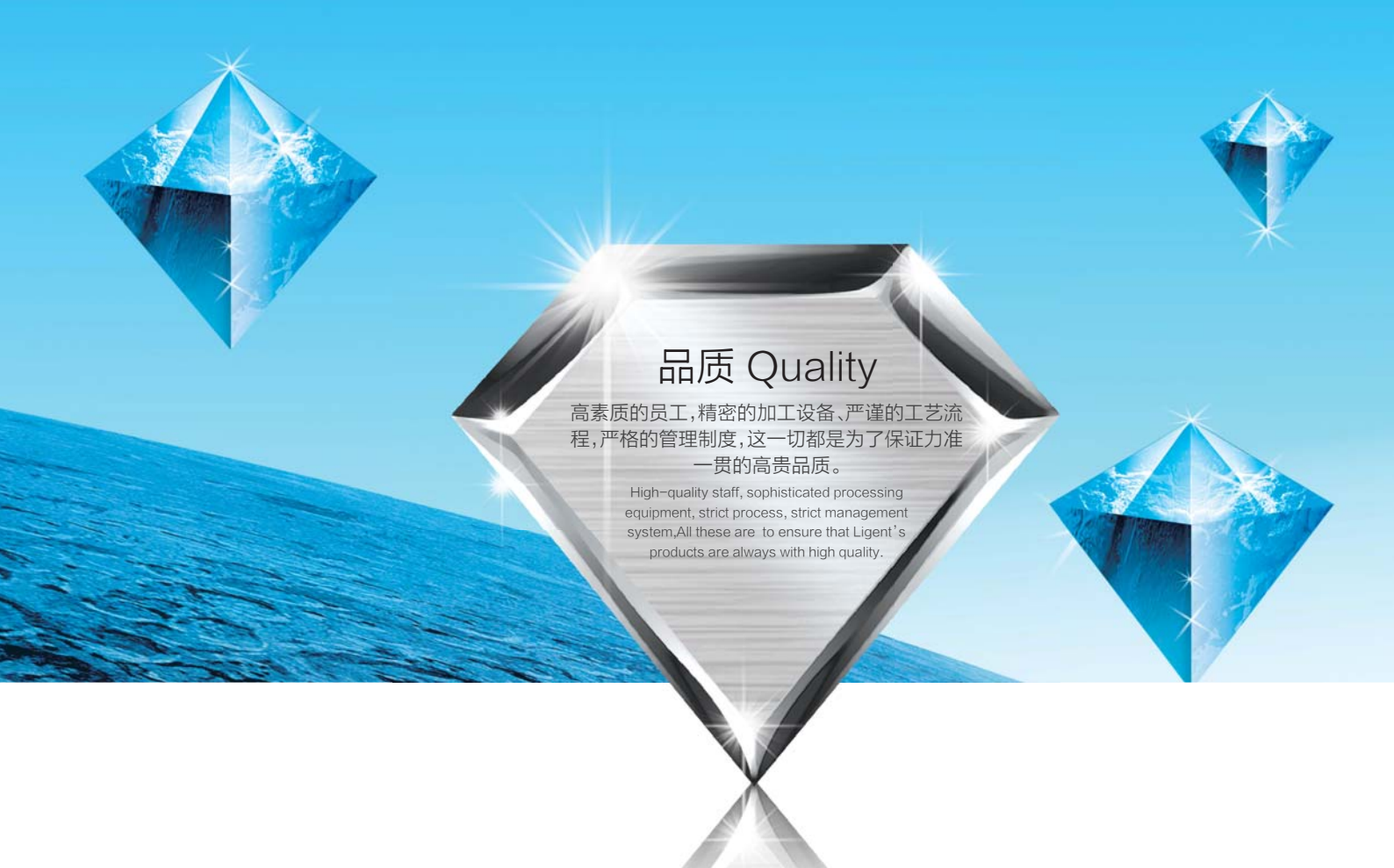
With more than 30 years of advanced technology and experiences in the field of force measurement, we have designed and produced more than hundreds of types of products including miniature compression and/or tension load cells, three-dimensional force sensors, force sensors, pressure transducers, transmitters/amplifiers and indicators, which have obtained a number of national patents. Our products are widely applied in a variety of new and intelligent high-end areas, such as industrial automation production lines, robotics, metallurgy and medical apparatus and instruments. Through continuous improvement, our

products are able to replace foreign similar products due to their high stability and sensitivity.

Our mission statement: to provide the most 'powerful' services and the most 'accurate' products for intelligent manufacturing enterprises, in order to become one of the top force measurement brand in the field of automation and intelligent manufacturing.

Business philosophy: to create a win-win situation with customers, share with employees, and assist in the development of automation in China.

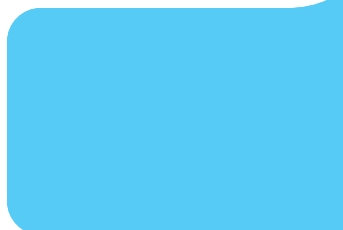
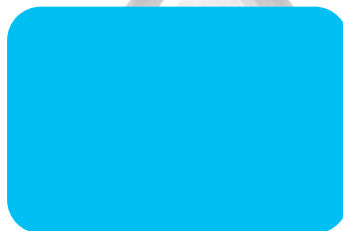




品质 Quality

高素质的员工,精密的加工设备、严谨的工艺流程,严格的管理制度,这一切都是为了保证力准一贯的高贵品质。

High-quality staff, sophisticated processing equipment, strict process, strict management system, All these are to ensure that Ligent's products are always with high quality.



力准传感 引领未来

Ligent Sensor Lead the Future



续写辉煌 共赢天下
The world is a win-win situation



我们的售后服务 Customer Service

我公司提供的产品均是具有自主知识产权，自主研发，自主生产的产品。为客户提供高效全面的服务，最大程度的保障客户的切身利益是我们坚持不变的服务原则。为了给客户id提供最高品质的服务，我们视服务为最重要的产品，力求做到服务的专业化，多元化，层次化，为客户提供包括产品咨询、产品设计、项目实施、项目维护，专业培训等在内的长期、全面的技术服务与支持。并承诺提供最佳的技术支持及售后服务，保证产品运行于最佳状态。

All of our products have independent Intellectual Property Rights, Independent research, Independent produce. Supplying high -efficiency and all-around service to our customers, guarantee customer' s benefit at most are our perseverance service principle. In order to supply top quality service to customer, we are trying our best to make our service more specialization, multi-element, multi-level, Supplying long term, all-around technic service and support which in the field of produce consultation, produce design , project implementation and maintenance, professional training, meanwhile, we promise to supply best technic support and sales service to guarantee our product in the best situation.



微型压式传感器 Miniature Compression Force Sensor	05-14
拉杆式拉压传感器 Screw Type Tension & Compression Force Sensor	15-20
S型拉压传感器 S Type Force Sensor	21-26
环形传感器 Ring Shaped Force Sensor	27-34
柱式传感器 Column Force Sensor	35-42
轴销类传感器 Load Pin	43-44
秤重类传感器 Load Cell	45-49
多轴力传感器 Multi-axis Force Sensor	50-53
静态扭矩传感器 Static Torque Sensor	54-57
微型位移传感器 Micro-Displacement Sensor	58-58
动态扭矩传感器 Dynamic Torque Sensor	59-62
液压传感器 Pressure Sensor/Transmitter	63-65
变送器/放大器 Transmitter/Amplifier	66-70
控制仪表 Digital Control Indicator	71-76
TEDS系统构成 TEDS System Components	77-77
便携式手持仪 Portable Dynamometer	78-78



微型压式传感器
Miniature Compression Force Sensor

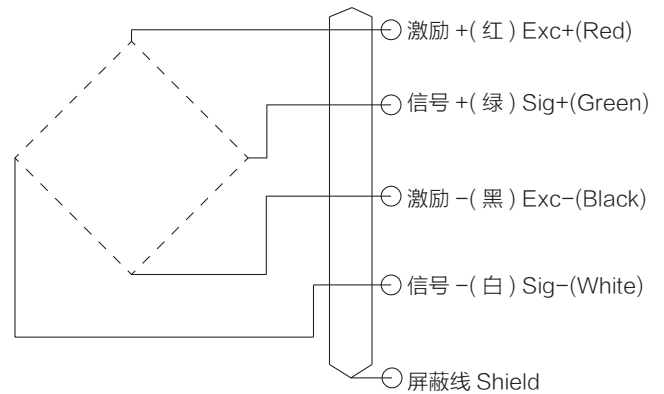
微型压式传感器

- 1、结构特点：膜盒式或变截面膜盒式结构。
- 2、特点：结构紧凑，小巧，高度低，适合于安装空间有限的设备上的力值检测、控制。
- 3、动态响应频率小于 300Hz。

Minimum Compression Force Sensor

- 1、Structure Features: Bellow style.
- 2、Features: compact structure, small volume, low profile, suitable for force measurement and control in small space of equipment.
- 3、Dynamic Response Frequency: less than 300Hz.

传感器接线示意图 Wire Connection



应用领域 Application



1、消费类电子和电子行业

屏幕压装、电池压装、功能键 - HOME 键等装配，密封性能检测、按键检测等力值检测和控制；插拔力、簧片张力及装配应力、焊接的力值检测。

1、Consumer electronics and electronic industries:

Force measurement and control in production of screen mounting, battery mounting, function key assembly (like HOME button etc), seal performance testing, key testing. Force measurement of insertion force, strip tension, pressure equipment, welding and assembly stress strength testing, etc.



2、注塑和模具行业

合模力值的检测和控制，装配力值检测，装配间隙和压入力值检测和控制

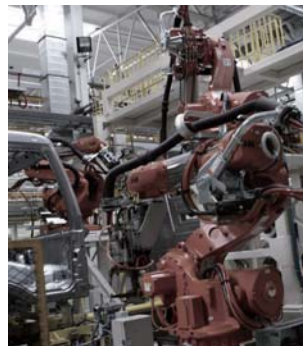
2、Injection molding and mold industry
Clamping force measurement and control, Press-in force and assembling gap detection and control .



3、医疗行业

注液泵的力值检测和控制，医疗床等行业

3、Medical Industries
Force measurement and control of Injection bump, and medical bed.



4、机器人

机器人手指抓取力值的检测和控制，压入力的检测和控制

4、Robots
Grasping force measurement and control of robot fingers, compression or tension, press in force measurement and control.

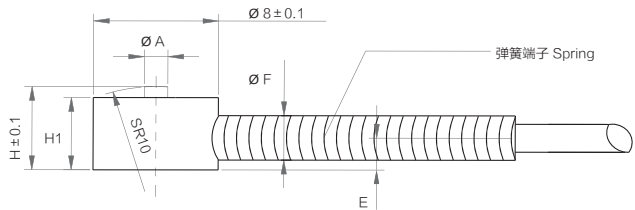


5、汽车

装配力值检测、压入力值检测

5、Auto Industry
Assembling force, press-in force, polishing and welding force measurement and control.

LFC-08



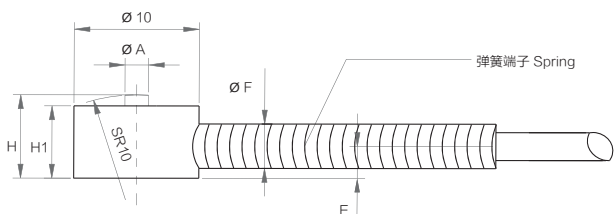
Model	Capacity	ØA	H	H1	E	F
LFC-08-H6	5-10kg	1.5	6	5.2	2.3	3.2
	20-30kg	2				
	50-100kg	2.5				
LFC-08-H3.5	5-10kg	1.5	3.5	3	1.4	Direct Cable No spring
	20-30kg	2				

LFC-08规格参数 Specifications

量程 Capacity	5-100kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0-5.0% F.S.
滞后 Hysteresis	1.0-5.0% F.S.
重复性 Repeatability	1.0-5.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1-0.5% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5-5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFC-10



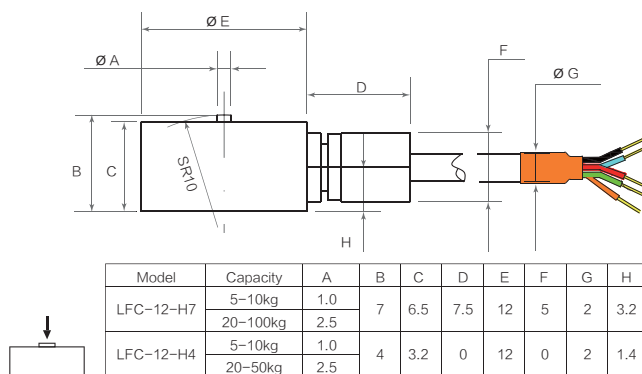
Model	Capacity	ØA	H	H1	E	F
LFC-10-H6	5-30kg	1.5	6	5.2	2.3	3.2
	50-100kg	2.5				
LFC-10-H3.5	5-50kg	1.5	3.5	3	1.36	Direct Cable No spring

LFC-10规格参数 Specifications

量程 Capacity	5-100kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0-3.0% F.S.
滞后 Hysteresis	1.0% F.S.
重复性 Repeatability	1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5-5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFC-12

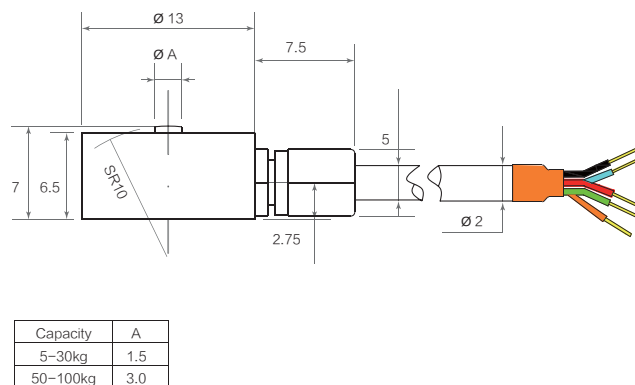


LFC-12规格参数 Specifications

量程 Capacity	5-100kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0-0.5% F.S.
滞后 Hysteresis	1.0-0.5% F.S.
重复性 Repeatability	1.0-0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5-5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFC-13

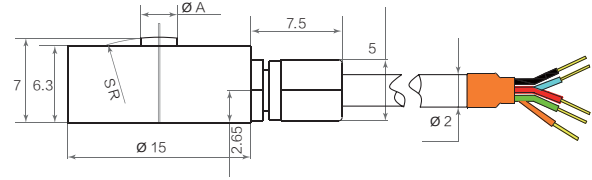


LFC-13规格参数 Specifications

量程 Capacity	5-100kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 or 1000 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3-5V
工作温度范围 Operating Temp Range	- 20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFC-15



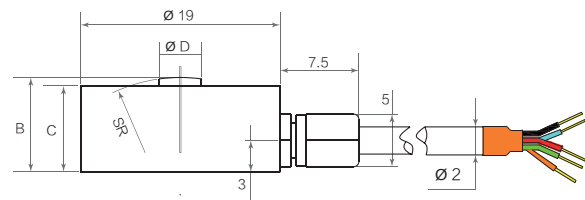
Capacity	A	SR
5-20kg	1.5	10
30-200kg	3	15
250-500kg	5	20

LFC-15规格参数 Specifications

量程 Capacity	5-500kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 or 1000 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3-5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFC-19



Capacity	B	C	D	SR
5-20kg	9	8.2	1.5	15
30-100kg	9	8	2.5	30
150-500kg	9	8	5	60

LFC-19规格参数 Specifications

量程 Capacity	5-500kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 or 1000 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3-5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

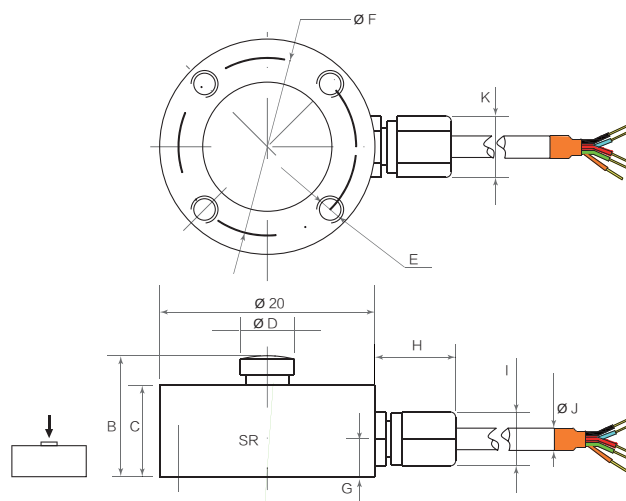
LFC-20



Model	Capacity	B	C	D	SR	E	F	G	H	I	J	K
LFC-20-4M-H11	5-500kg	11	8.5	5	20	4-M2.5 Deep 5	16.5	3.2	7.5	5	2	5.7
	1000-2000kg	11	8.5	6	20	4-M2.5 Deep 5	16.5	3	7.5	5	2	5.7
LFC-20-4M-H5	5-100kg	5	4.5	2.5	10	4-M2.5	16.5	1.7	0	0	2	0

LFC-20规格参数 Specifications

量程 Capacity	5-2000kg
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C



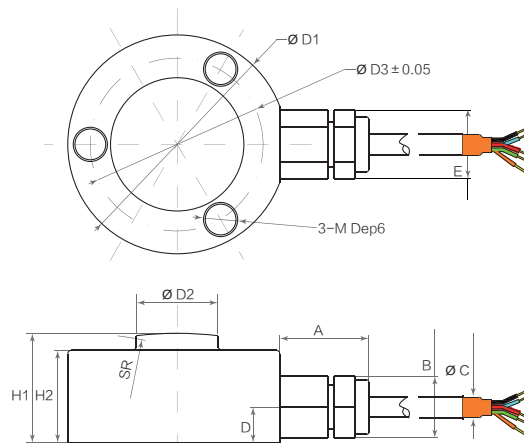
材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3-5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFC-3M-XX



LFC-3M-XX规格参数 Specifications

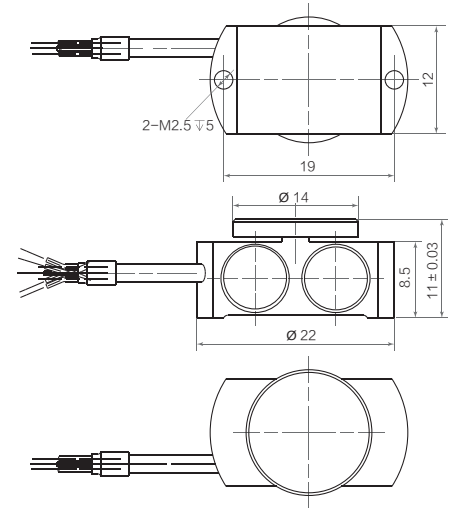
量程 Capacity	0-120KN
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C



Model	Capacity	D1	D2	D3	H1	H2	SR	A	B	C	D	E	M
LFC-3M-20	50-500N	20	2.5	15.5	12	10	10	7.5	5	2	4.5	5.7	M3
LFC-3M-25	100-500N	25	5	19	16	13.5	10	13	9	3	6	10	M4
LFC-3M-32	1-10KN	32	8	25.4	16	13.5	16	13	9	3	5.3	10	M5
LFC-3M-38	20-50KN	38	11	30	16	14	50	13	9	3	5.2	10	M5
LFC-3M-51	60-120KN	51	16	41	26	22	30	14	14	4	12	15.7	M8

材质 Material	Stainless Steel
阻抗 Impedance	350 or 700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2-4 x 3m
TEDS 可选	

LFC-22

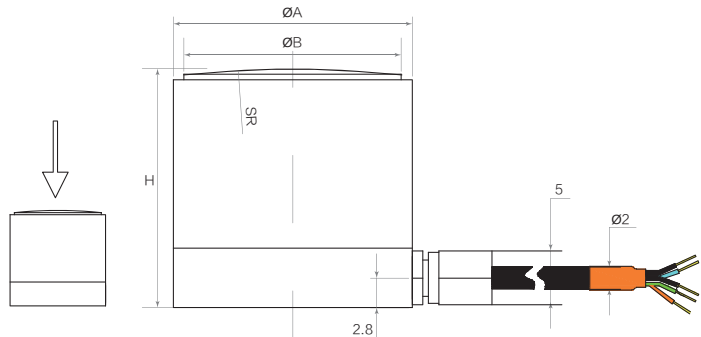


LFC-22规格参数 Specifications

量程 Capacity	0~10,20,30,50kg
输出灵敏度 Rated Output	1.5 ± 10 % mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5~5V
工作温度范围 Operating Temp Range	- 20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 3 x 3m
TEDS 可选	

LF-305



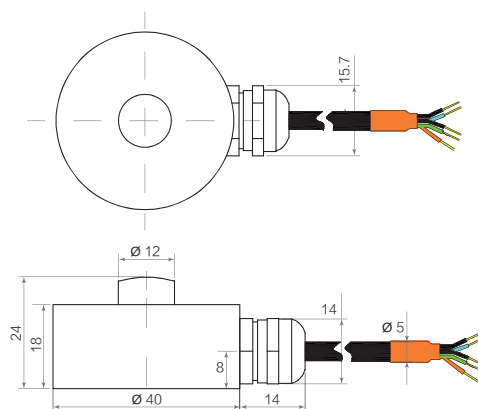
量程 Capacity	ØA	ØB	H	SR
10,15,2,25KN	15.9	13.4	16.81	101
30,50,75KN	22.4	20.4	22.4	101
100,150KN	31.8	28.9	28.9	127

LFC-305规格参数 Specifications

量程 Capacity	0~150KN
输出灵敏度 Rated Output	1.5~2.0 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0% F.S.
滞后 Hysteresis	1.0% F.S.
重复性 Repeatability	1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 2 x 3m
TEDS 可选	

LFC-40

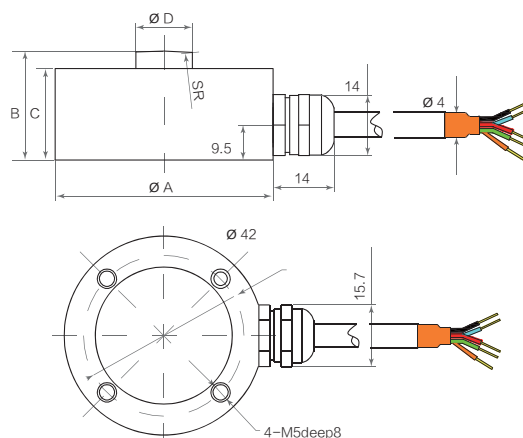


LFC-40规格参数 Specifications

量程 Capacity	0-50,100,300,500,1000,2000Kg
输出灵敏度 Rated Output	1.5 ± 10 % mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Input Impedance	750 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 5x 3m
TEDS 可选	

LFC-50



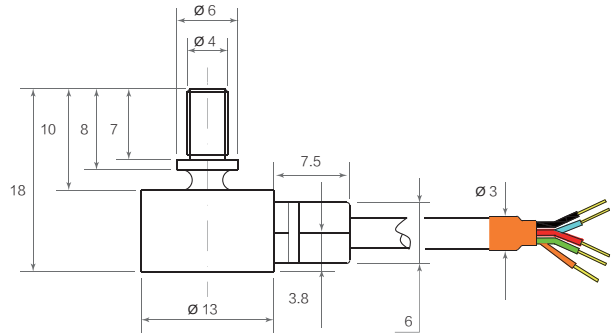
LFC-50规格参数 Specifications

量程 Capacity	0-50KN
输出灵敏度 Rated Output	1.5 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1~0.5% F.S.
滞后 Hysteresis	0.1~0.5% F.S.
重复性 Repeatability	0.1~0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

Capacity	A	B	C	D	SR
0.5,1,2,3,5,10,20KN	50	25	21	13	85
30,50KN	51	25	21	16	100

材质 Material	Stainless Steel
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LFT-13A

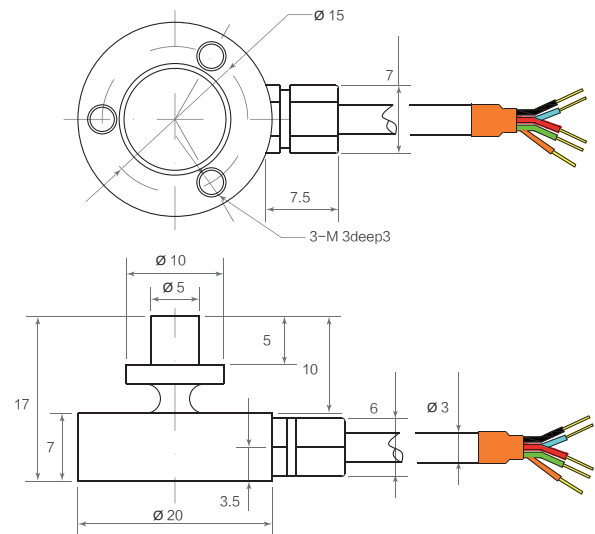


LFT-13A规格参数 Specifications

量程 Capacity	0~5,10,20,30,50kg
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5~1.0% F.S.
滞后 Hysteresis	0.5~1.0% F.S.
重复性 Repeatability	0.5~1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 or 1000 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5~5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 3x 3m
TEDS 可选	

LFT-20

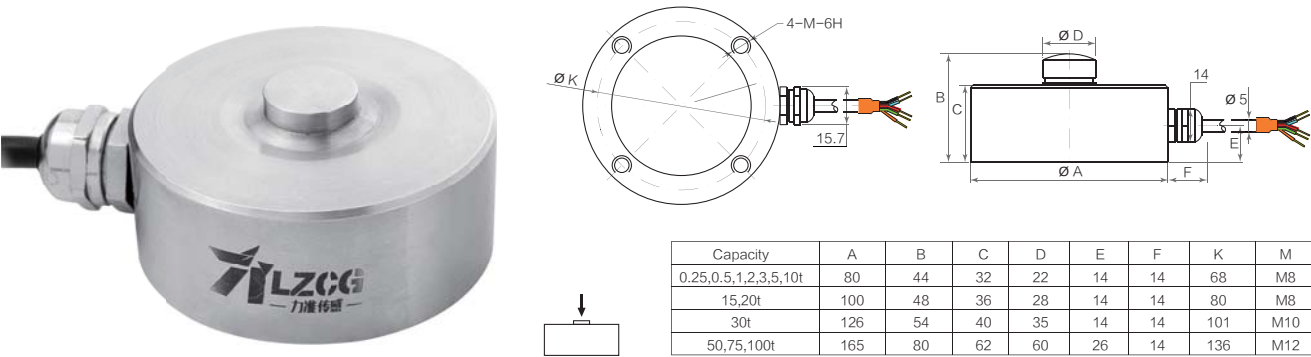


LFT-20规格参数 Specifications

量程 Capacity	0~5,10,20,30,50kg
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 or 1000 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 3 x 3m
TEDS 可选	

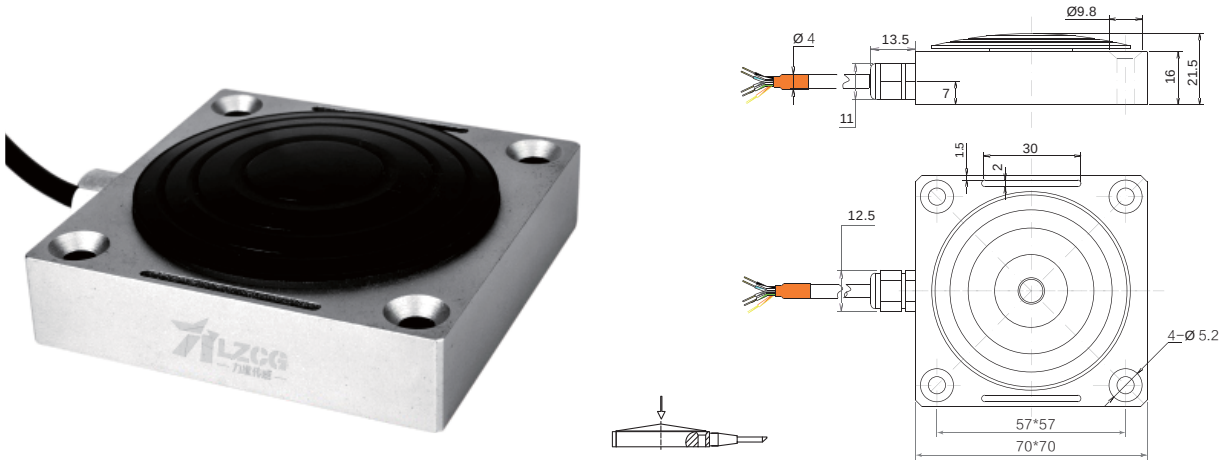
LFC-2B



LFC-2B规格参数 Specifications

量程 Capacity	0~100t	材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V	阻抗 Impedance	700 Ω
零点输出 Zero Balance	± 2 % F.S.	绝缘电阻 Insulation	≥5000MΩ/100VDC
非线性 Non-linearity	0.1% F.S.	使用电压 Recommended Excitation	5~10V
滞后 Hysteresis	0.1% F.S.	工作温度范围 Operating Temp Range	- 20 ~ 80 °C
重复性 Repeatability	0.1% F.S.	安全过载 Safe Overload	120%
蠕变 (30分钟) Creep (30min)	0.05% F.S.	极限过载Maximum Overload	150%
温度灵敏度漂移Temp Effect on Output	0.05% F.S. / 10°C	电缆线规格 Cable Specifications	Ø 5x 3m
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C	TEDS 可选	

LFB



LFB规格参数 Specifications

量程 Capacity	0~100,200,300,400,500lb	材质 Material	铝 Aluminum
输出灵敏度 Rated Output	1.5 ± 10% mV/V 0~5V,0~10V 4~20mA	重复性 Repeatability	0.1% F.S.
精度 Accuracy	0.5%,0.25%,0.1%	绝缘电阻 Insulation	≥5000MΩ/100VDC
供电电压 Power Supply	9~12VDC	工作温度范围 Operating Temp Range	- 20 ~ 80°C
温度灵敏度漂移Temp Effect on Output	0.1% F.S./10°C	安全过载 Safe Overload	120%
零点温度漂移 Temp Effect on Zero	0.1% F.S./10°C	电缆线规格 Cable Specifications	Resistance to bend cable Ø 4 x 3m
电缆线连接方式 Wire Connection	输出 output:1.5~8mA 输出 output:0~5V 输出 output:1.5mV/V	Power + :红 Red; Output:绿 Green Power+ : 红 Red; EX-: 黑 Black; Output: 绿 Green Power+ : 红 Red; EX-: 黑 Black; Output +: 绿 Green; Output -: 白 White	



拉杆式拉压传感器

Screw Type Tension & Compression Force Sensor

拉杆式拉压传感器

- 1、结构特点：拉杆式结构；易于安装。
- 2、特点：结构紧凑,小巧,精度高；适合于安装空间有限的设备上的力值检测、控制。
- 3、动态响应频率 $\leq 200\text{Hz}$ 。

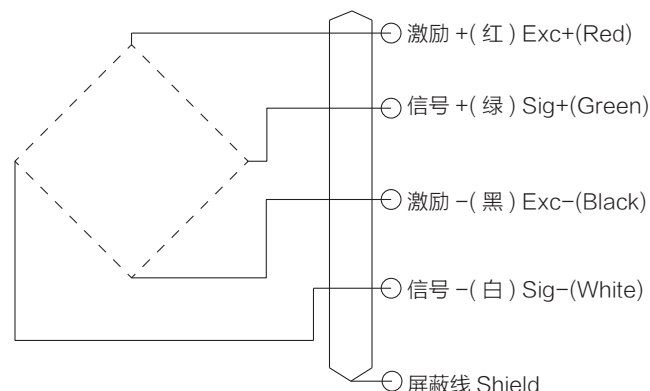
Screw Type Tension & Compression force sensor

- 1.Screwed Type Force Sensor
- 2.Features: compact structure,small volume , high accuracy, suitable for force measurement and control in small space.
- 3.Dynamic Response Frequency $\leq 200\text{Hz}$.

应用领域 Application



传感器接线示意图 Wire Connection



1、消费类电子和电子行业

屏幕压装、电池压装、功能键 - HOME 键等装配，密封性能检测、按键检测等力值检测和控制；插拔力、簧片张力及装配应力、焊接的力值检测。

1、Consumer electronics and electronic industries:

Force measurement and control in production of screen mounting, battery mounting, function key assembly (like HOME button etc), seal performance testing, key testing. Force measurement of insertion force, strip tension, pressure equipment, welding and assembly stress strength testing, etc.

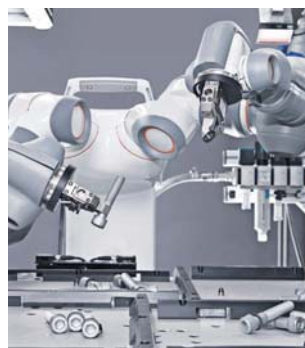


2、医疗行业

注液泵的力值检测和控制，医疗床等行业

2、Medical Industries

Force measurement and control of Injection bump, and medical bed.



3、机器人

机器人手指抓取力值的检测和控制，压入力的检测和控制

3、Robots

Grasping force measurement and control of robot fingers, compression or tension, press in force measurement and control.



4、汽车

装配力值检测、压入力值检测。

4、Auto Industry

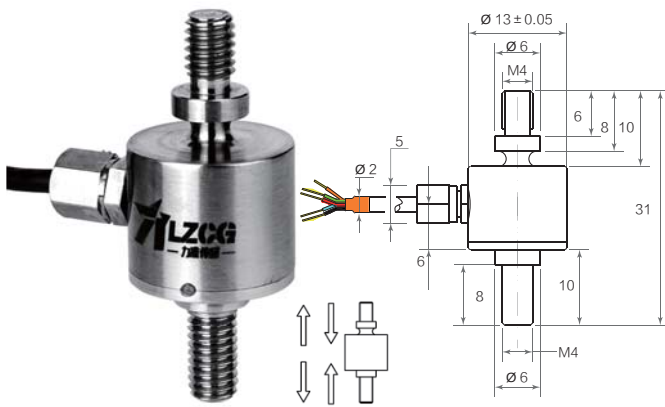
Assembling force, press-in force, polishing and welding force measurement and control.



5、纺织、造纸、线张力的检测

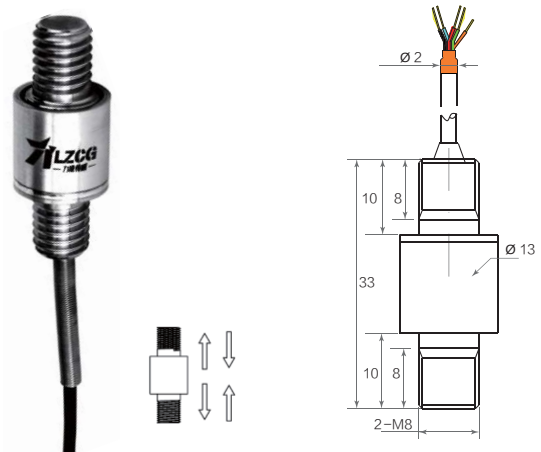
5、Tension Test of Textile, papermaking, wire.

LFT-13D



LFT-13B规格参数 Specifications

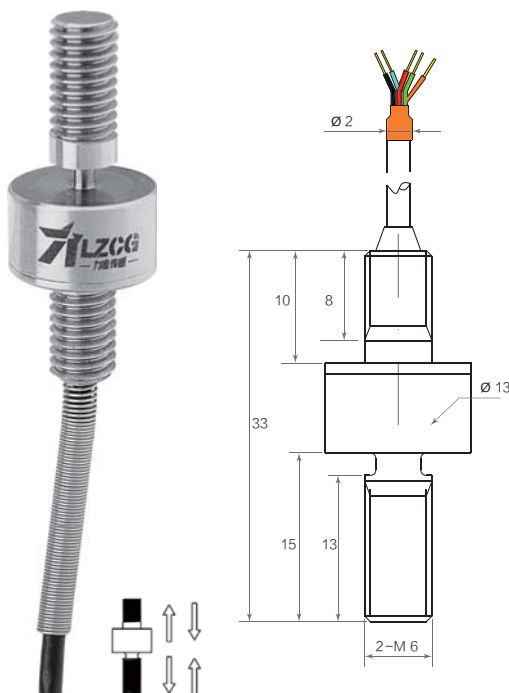
量程 Capacity	0~5,10,20, 30,50kg	零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C
材质 Material	Stainless Steel	阻抗 Impedance	350 Ω
输出灵敏度 Rated Output	1.0~1.5 mV/V	绝缘电阻 Insulation	≥5000MΩ/ 100VDC
零点输出 Zero Balance	± 2 % F.S.	使用电压 Recommended Excitation	3~5V
非线性 Non-linearity	1.0% F.S.	工作温度范围 Operating Temp Range	- 20 ~ 80 °C
滞后 Hysteresis	1.0% F.S.	安全过载 Safe Overload	120%
重复性 Repeatability	1.0% F.S.	极限过载 Maximum Overload	200%
蠕变 (30分钟) Creep (30min)	0.1% F.S.	电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C	TEDS 可选	



LFT-13D规格参数 Specifications

量程 Capacity	0~200,300,500kg	零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C
材质 Material	Stainless Steel	阻抗 Impedance	350 Ω
输出灵敏度 Rated Output	1.0~1.5 mV/V	绝缘电阻 Insulation	≥5000MΩ/ 100VDC
零点输出 Zero Balance	± 2 % F.S.	使用电压 Recommended Excitation	3~5V
非线性 Non-linearity	1.0% F.S.	工作温度范围 Operating Temp Range	- 20 ~ 80 °C
滞后 Hysteresis	1.0% F.S.	安全过载 Safe Overload	120%
重复性 Repeatability	1.0% F.S.	极限过载 Maximum Overload	200%
蠕变 (30分钟) Creep (30min)	0.1% F.S.	电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C	TEDS 可选	

LFT-13C



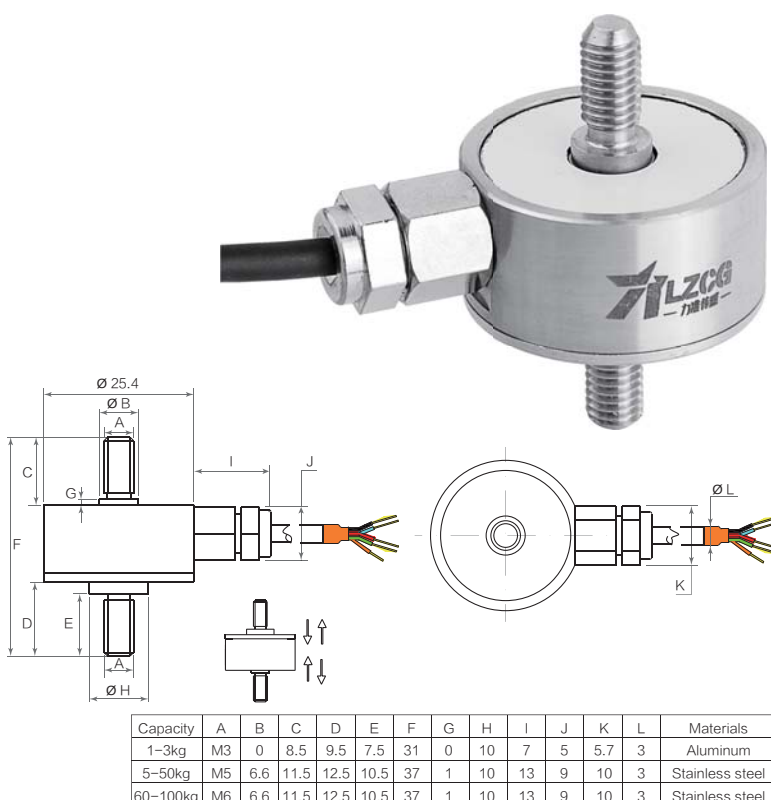
LFT-13C规格参数 Specifications

量程 Capacity	0~5,10,20,30,50,100kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0~5.0% F.S.
滞后 Hysteresis	1.0% F.S.
重复性 Repeatability	1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移Temp Effect on Output	0.1% F.S. / 10℃
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10℃
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3~5V
工作温度范围 Operating Temp Range	- 20 ~ 80 ℃
安全过载 Safe Overload	120%
极限过载Maximum Overload	200%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

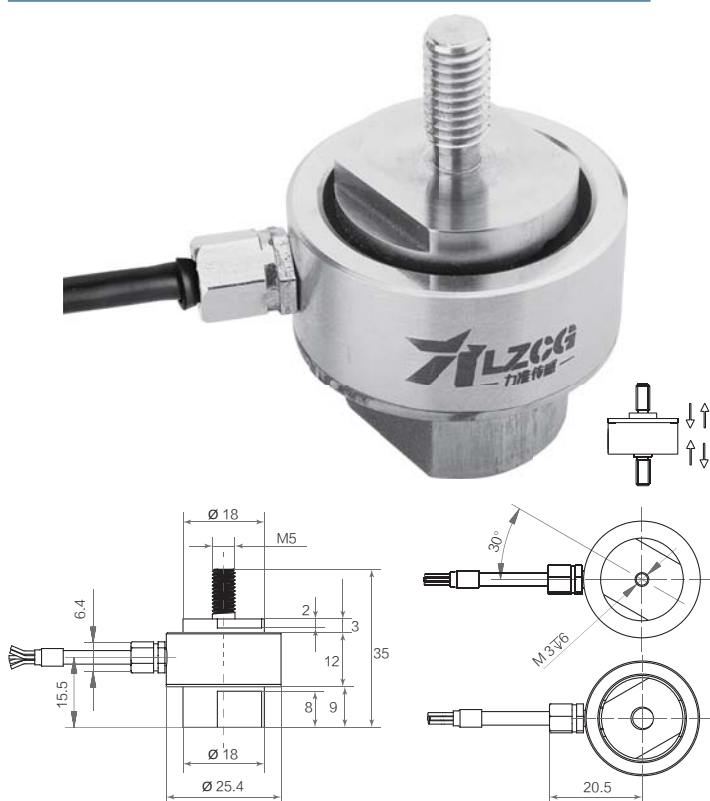
LFT-25

LFT-25规格参数 Specifications

量程 Capacity	0~100kg
材质 Material	Stainless Steel/Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1~0.5% F.S.
滞后 Hysteresis	0.1~0.5% F.S.
重复性 Repeatability	0.1~0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	



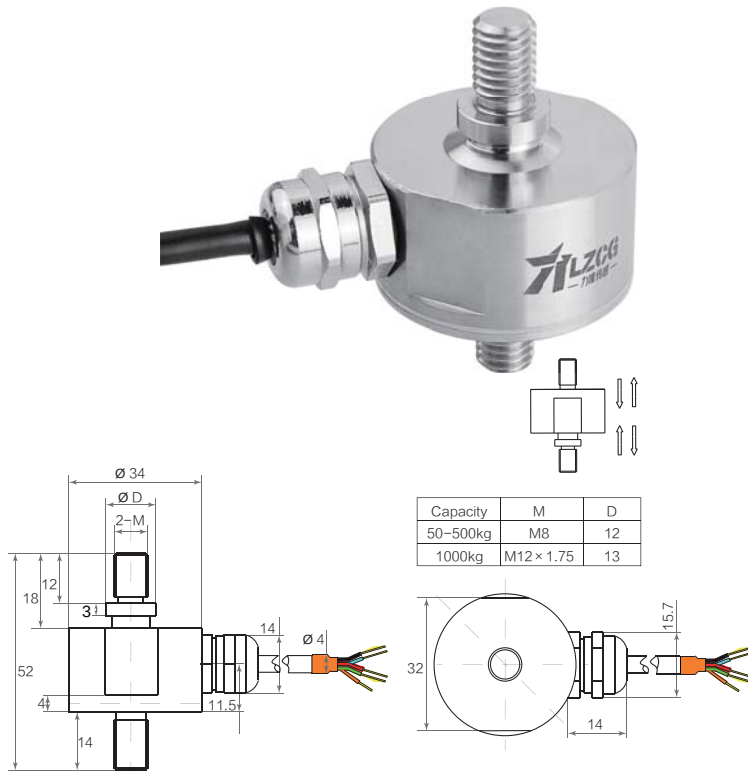
LFT-25M



LFT-25M规格参数 Specifications

量程 Capacity	0~100kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1~0.5% F.S.
滞后 Hysteresis	0.1~0.5% F.S.
重复性 Repeatability	0.1~0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LFT-34



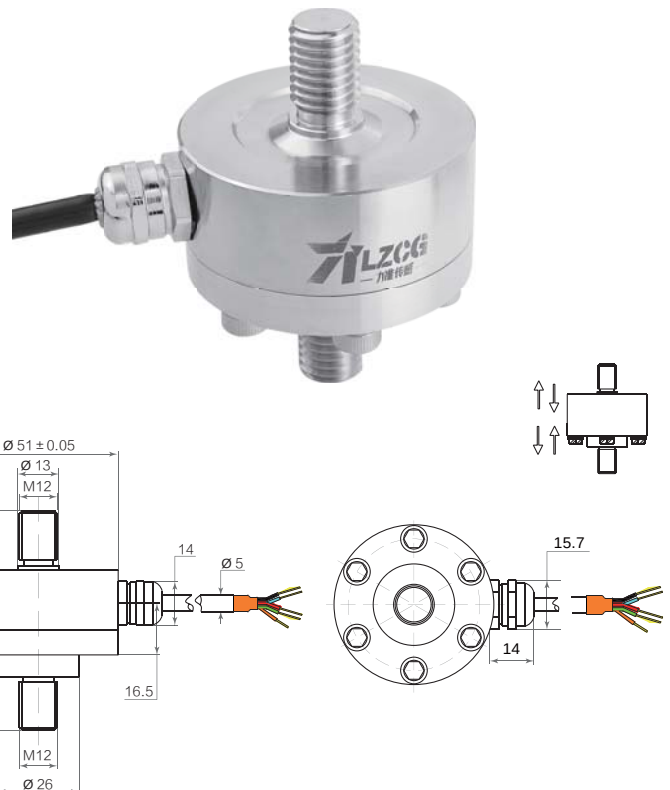
LFT-34规格参数 Specifications

量程 Capacity	0-1000kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5-2.0mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LFT-51K

LFT-51K规格参数 Specifications

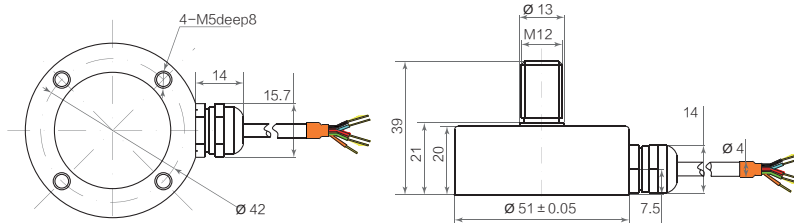
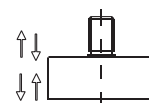
量程 Capacity	0-20KN
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5-2.0 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	



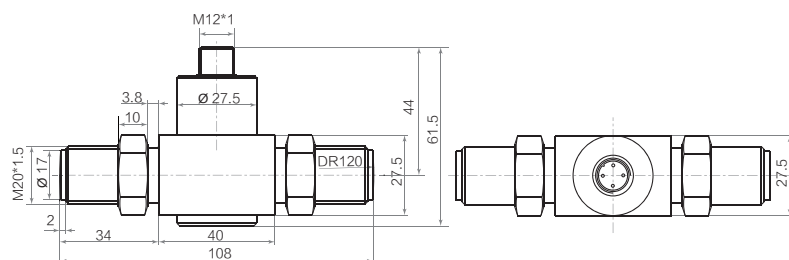
LFT-51L

LFT-51L规格参数 Specifications

量程 Capacity	0-2000kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5-2.0 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.5% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	



LFT-F05



LFT-F05规格参数 Specifications

量程 Capacity	0-30KN
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.2-0.5% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	1000Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	5 Pin connector
TEDS 可选	



S型拉压传感器
S Type Force Sensor

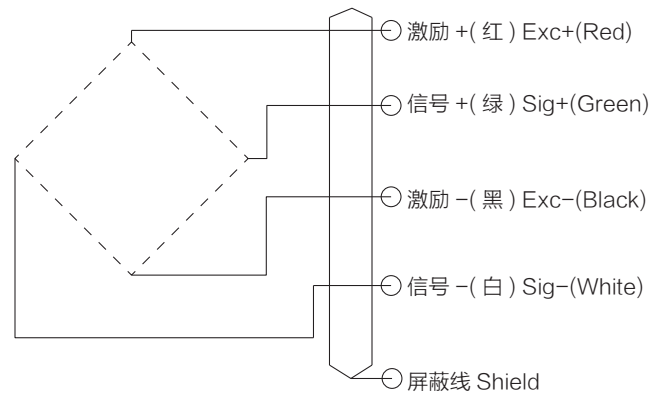
微型S性结构传感器

- 1、结构特点：“S”型结构；
- 2、特点：结构紧凑，小巧，精度高；适合于安装空间有限的设备上的力值检测、控制。
- 3、动态响应频率：<900Hz (LFS-02)
<500Hz (LFS-01,LFS-01A,LFS-01B)
<100Hz (LFS-05,LFS-06,LFS- 07,LFS-08,)

Minimum S type force sensor

- 1、Structure Features: S type
- 2、Features: compact structure, small volume , high accuracy, suitable for force measurement and control in small space.
- 3、Dynamic Response Frequency:
<900Hz (LFS-02)
<500Hz (LFS-01,LFS-01A,LFS-01B)
<100Hz (LFS-05,LFS-06,LFS- 07,LFS-08,)

传感器接线示意图 Wire Connection



应用领域 Application



- 1、消费类电子和电子行业
屏幕压装、电池压装、功能键 - HOME 键等装配，密封性能检测、按键检测等力值检测和控制；插拔力、簧片张力及装配应力、焊接的力值检测。

1、Consumer electronics and electronic industries:
Force measurement and control in production of screen mounting, battery mounting, function key assembly (like HOME button etc), seal performance testing, key testing. Force measurement of insertion force, strip tension, pressure equipment, welding and assembly stress strength testing, etc.



- 2、医疗行业
注液泵的力值检测和控制，医疗床等行业

2、Medical Industries
Force measurement and control of Injection pump, and medical bed.



- 3、机器人
机器人手指抓取力值的检测和控制，压入力的检测和控制

3、Robots
Grasping force measurement and control of robot fingers, compression or tension, press in force measurement and control.



- 4、汽车
装配力值检测、压入力值检测。

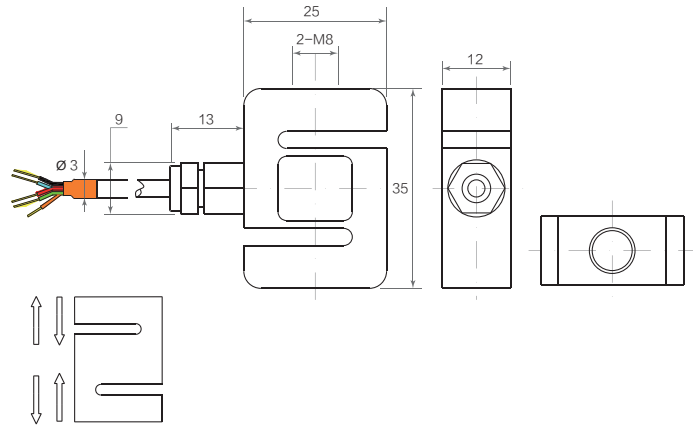
4、Auto Industry
Assembling force, press-in force, polishing and welding force measurement and control.



- 5、纺织、造纸、线张力的检测

5、Tension Test of Textile, papermaking, wire.

LFS-01

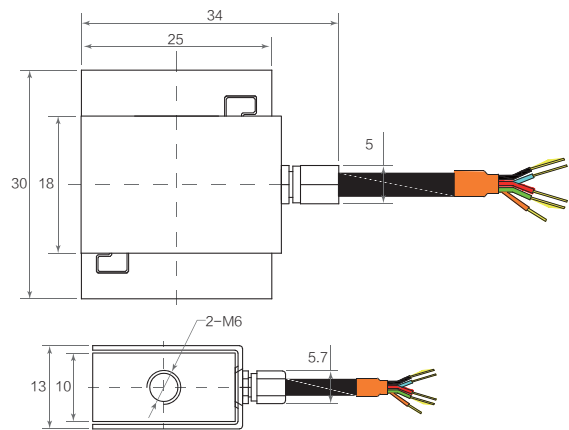


LFS-01规格参数 Specifications

量程 Capacity	0-5,10,20,30,50,100kg
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥ 5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LFS-01A

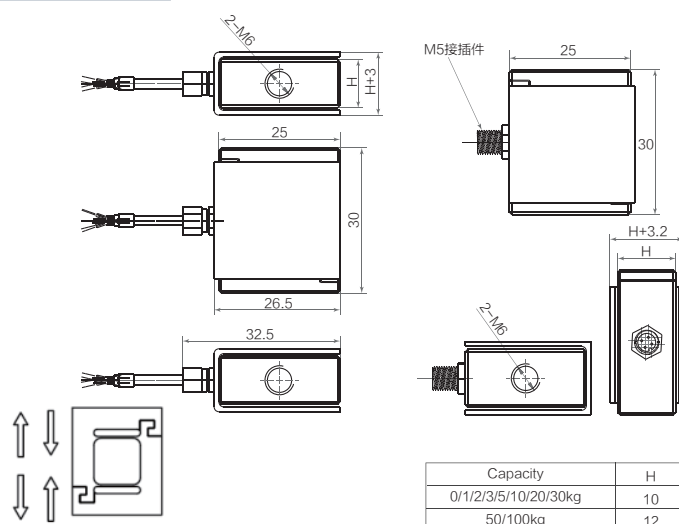


LFS-01A规格参数 Specifications

量程 Capacity	0~1,2,3,5,10,15,20,30kg
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥ 5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe overload	150%
极限过载 Maximum Overload	500%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 3 x 3m
TEDS 可选	

LFS-01B

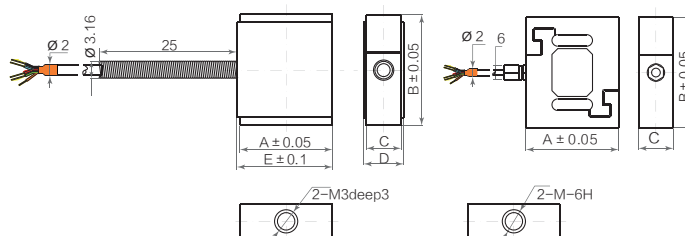
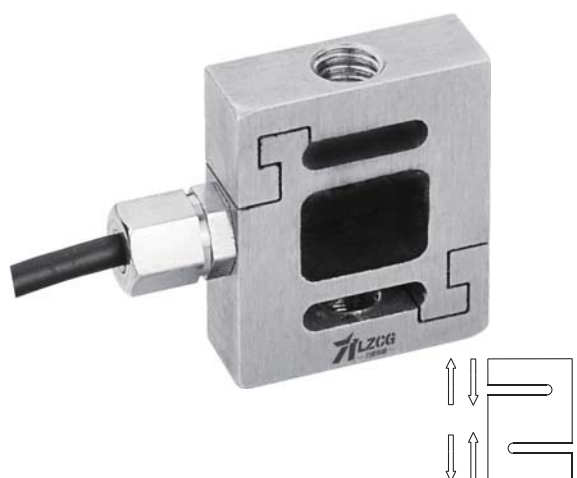


LFS-01B规格参数 Specifications

量程 Capacity	0~1,2,3,5,10,15,20,30,50,100kg
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度 范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe overload	150%
极限过载 Maximum Overload	500%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LFS-02

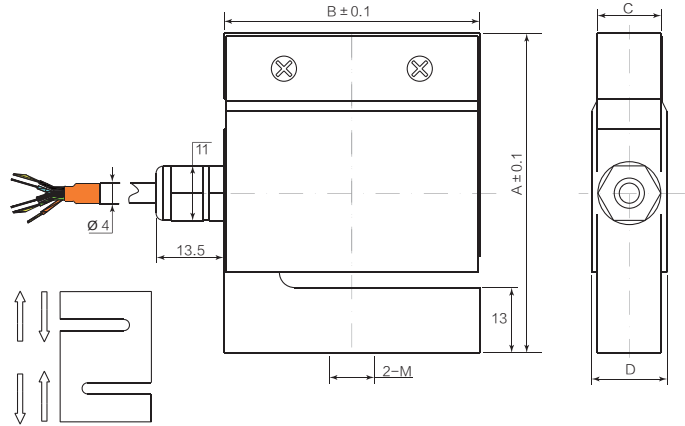


LFS-02规格参数 Specifications

量程 Capacity	0~2000N
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10°C

材质 Material	Aluminum or Stainless Steel
阻抗 Impedance	350
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3~5V
工作温度 范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe overload	120%
极限过载 Maximum Overload	500%
电缆线规格 Cable Specifications	Resistance to bend cable Ø 2 x 3m
TEDS 可选	

LFS-05



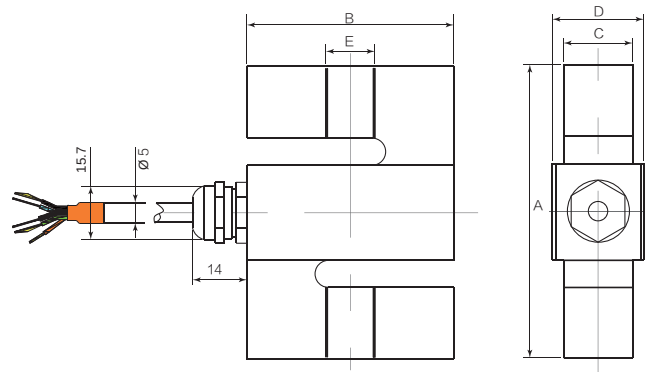
Capacity	A	B	C	D	M
2,5,6,10,20kg	63.5	50.8	12.7	17.0	1/4-28-UNF-3B M6x1-6H OR M8
30,50,100,200kg	76.2	50.8	25.4	30.0	1/2-20-UNF-3B M12x1.75-6H

LFS-05规格参数 Specifications

量程 Capacity	0-200kg
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥ 5000 MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度 范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LFS-06



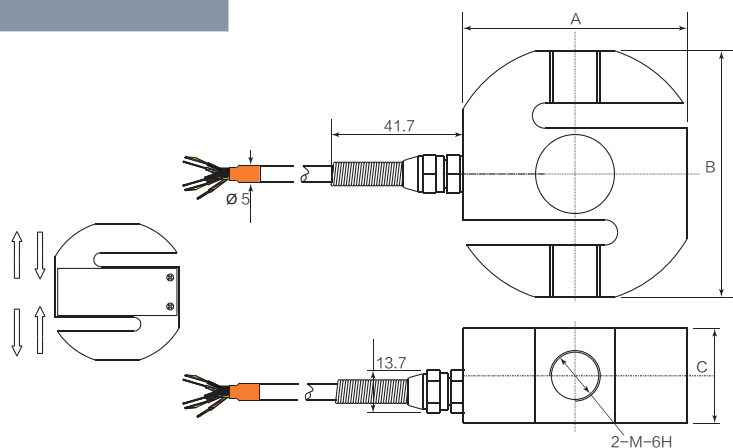
Capacity	A	B	C	D	M
10/20/30/50/75kg	63.5	50.8	12.7	19.1	M8x1.25 (1/4-28)
100/200/250/300/500kg	76.2	50.8	19.1	25.4	M12x1.75 (1/2-20)
750/1000/1500/2000kg	76.2	50.8	25.4	25.4	M12x1.75 (1/2-20)
2500/3000/5000kg	108	76.2	25.4	25.4	M18x1.5 (3/4-16)

LFS-06规格参数 Specifications

量程 Capacity	0-5000kg
输出灵敏度 Rated Output	2.0/3.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05 % F.S. / 10°C

材质 Material	Alloy Steel / Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥ 5000 MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度 范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	

LFS-07



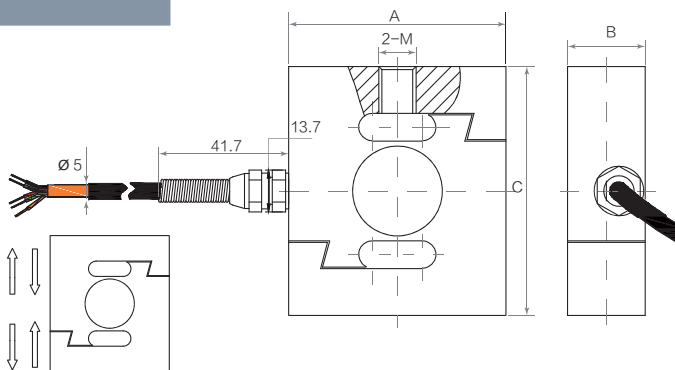
Capacity	A	B	C	M
50~500KG	52.5	59.5	22	M12
1000~2500KG	71	78	30	M16*2
3000~5000KG	91	90	45	M30*2
7500,10000KG	157	163	50	M30*2

LFS-07规格参数 Specifications

量程 Capacity	0~10t
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10~15V
工作温度 范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	

LFS-08



Capacity	Size			Thread	
kg	A	B	C	mm	inch
100~750	70	19	80	M10*1.5	1/2~20
1000~1500	70	25	80	M12*1.75	1/2~20
2000~5000	108	25	92	M18*1.5	3/4~16
10000	178	51	130	M30*2	11/4~12
20000	190	60	160	M39*2	11/4~12

LFS-08规格参数 Specifications

量程 Capacity	0~20t
输出灵敏度 Rated Output	2.0/3.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05 % F.S. / 10°C

材质 Material	Alloy Steel/Stainless Steel
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度 范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	



环形传感器

Ring Shaped Force Sensor

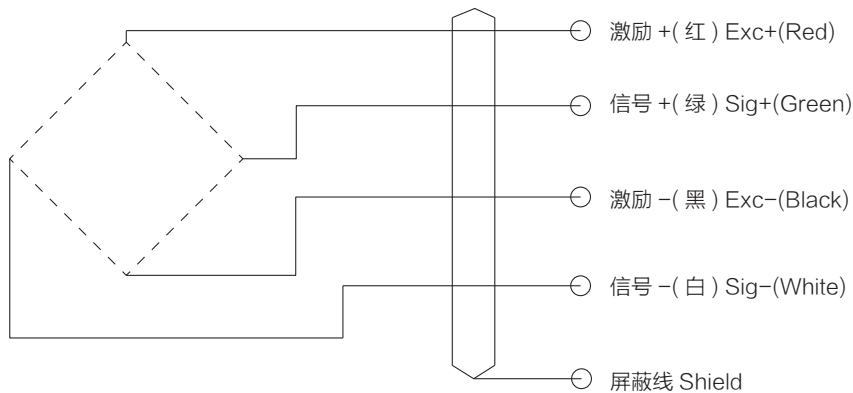
环形结构传感器、轮辐式结构

- 1、结构特点：环形中空型结构
- 2、特点：轮辐式或变截面膜盒式结构，结构紧凑、小巧，中心通孔或螺纹，可以直接连接丝杆或者受力杆，抗偏载能力强，精度高；适合于安装空间有限的设备上的力值检测、控制。
- 3、动态响应频率小于 300Hz

Ring type and wheel type force sensor

- 1、Structure features: Ring type, hollow structure
- 2、Features: compact structure, small volume, Centre hole or thread, can directly connect the screw or force-bearing bars, Strong anti side load, high accuracy, suitable for force measurement and control in small space.
- 3、Dynamic Response Frequency: less than 300Hz

传感器接线示意图 Wire Connection



应用领域 Application



1、消费类电子和电子行业
屏幕压装、电池压装、功能键 - HOME 键等装配，密封性能检测、按键检测等力值检测和控制；插拔力、簧片张力及装配应力、焊接的力值检测。

1、Consumer electronics and electronic industries:
Force measurement and control in production of screen mounting, battery mounting, function key assembly (like HOME button etc), seal performance testing, key testing. Force measurement of insertion force, strip tension, pressure equipment, welding and assembly stress strength testing, etc.



2、医疗行业
注液泵的力值检测和控制，张力检测

2、Medical Industries
Force measurement and control of Injection pump, and medical bed.



3、机器人
机器人手指抓取力值的检测和控制，压入力的检测和控制

3、Robots
Grasping force measurement and control of robot fingers, compression or tension, press in force measurement and control.



4、汽车
装配力值检测、压入力值检测。

4、Auto Industry
Assembling force, press-in force, polishing and welding force measurement and control.

LFE-02



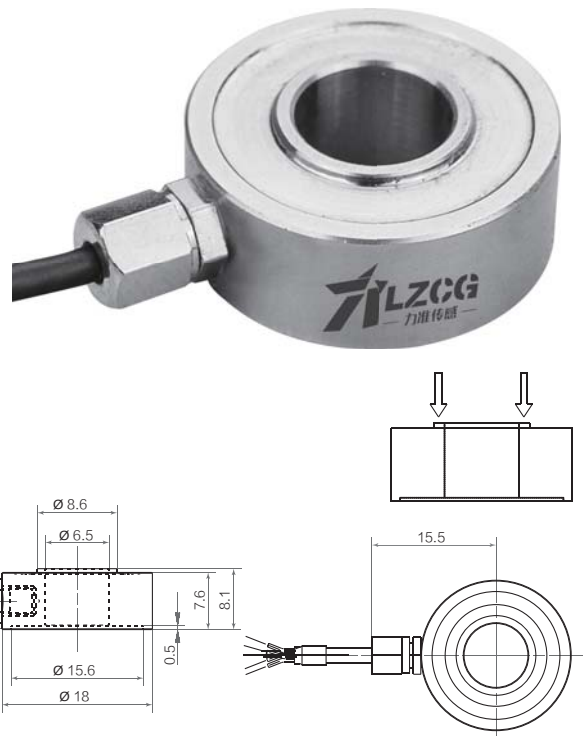
LFE-02规格参数 Specifications

量程 Capacity	0~5,10,20,30,50kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0% F.S.
滞后 Hysteresis	1.0% F.S.
重复性 Repeatability	1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10℃
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10℃
阻抗 Impedance	350 or 700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5~5V
工作温度范围 Operating Temp Range	- 20 ~ 80 ℃
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 2 x 3m
TEDS 可选	

LFE-04

LFE-04规格参数 Specifications

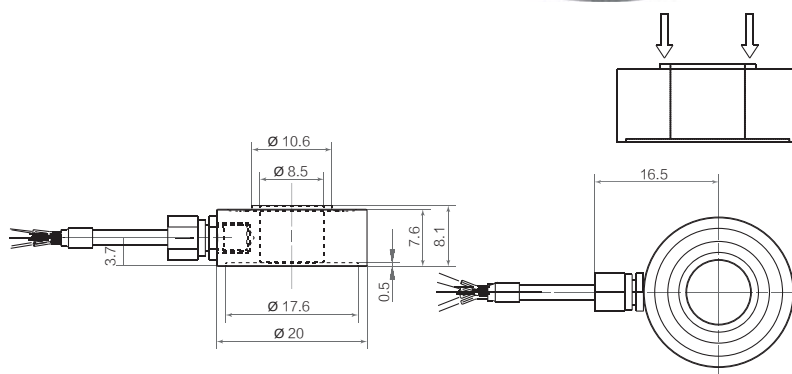
量程 Capacity	0~5,10,20,30,50kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0% F.S.
滞后 Hysteresis	1.0% F.S.
重复性 Repeatability	1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10℃
零点温度漂移 Temp Effect on Zero	0.1 % F.S. / 10℃
阻抗 Impedance	350 or 700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	2.5~5V
工作温度范围 Operating Temp Range	- 20 ~ 80 ℃
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 2 x 3m
TEDS 可选	



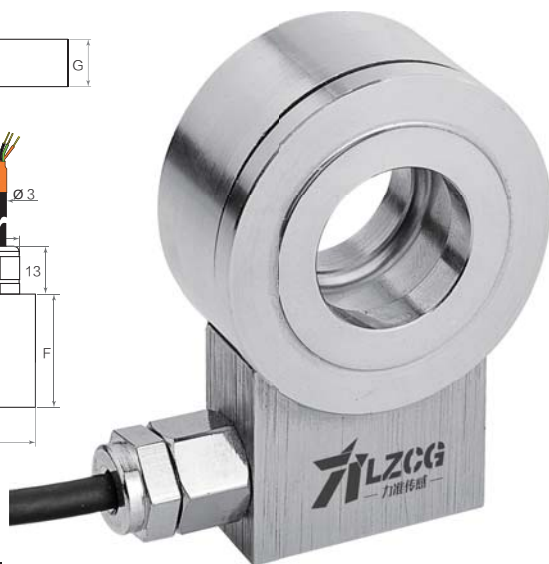
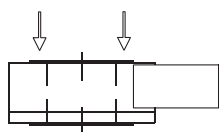
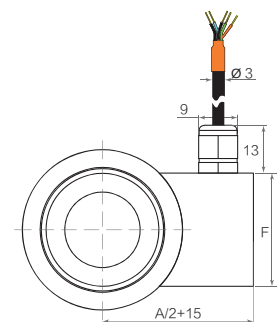
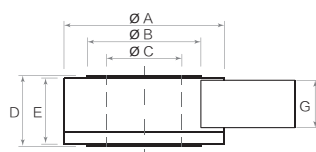
LFE-05

LFE-05规格参数 Specifications

量程 Capacity	0~5,10,20,30,50kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0% F.S.
滞后 Hysteresis	1.0% F.S.
重复性 Repeatability	1.0% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C
阻抗 Impedance	350 or 700 Ω
绝缘电阻 Insulation	≥ 5000MΩ/100VDC
使用电压 Recommended Excitation	2.5~5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 2 x 3m
TEDS 可选	



LFC-34

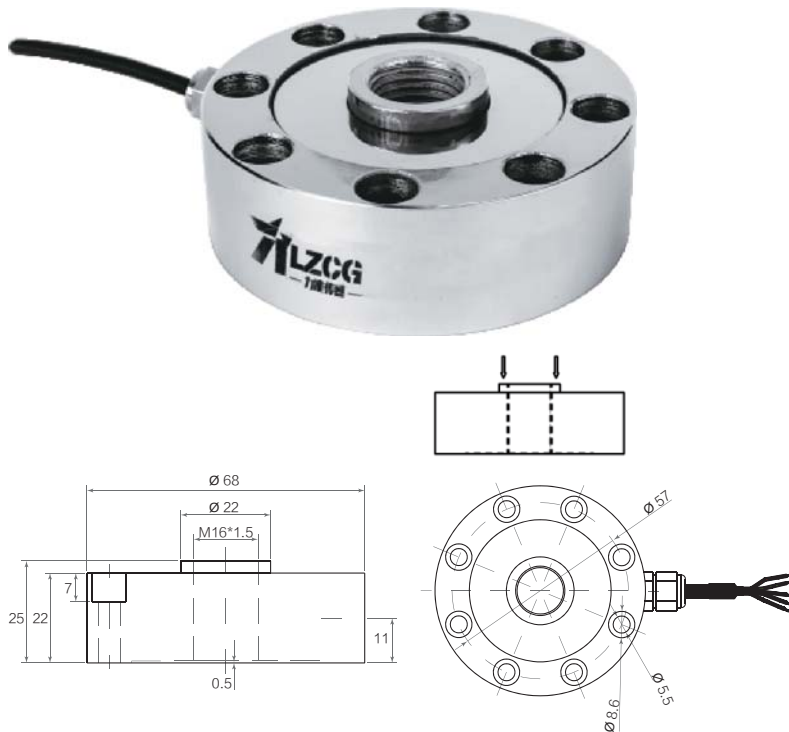


LFC-34规格参数 Specifications

量程 Capacity	0~45t
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0~3.0% F.S.
滞后 Hysteresis	1.0~3.0% F.S.
重复性 Repeatability	1.0~3.0% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥ 5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

Capacity	A	B	C	D	E	F	G
0.3/0.5/1/2t	34	24	16	15	14	24	11.5
2.5/3/3.5/4t	50	32	20.5	20	19	24	11.5
5/10/15/20t	69	54	32	50	49	50	30
10/20/30/45t	95	78	50	50	49	50	30

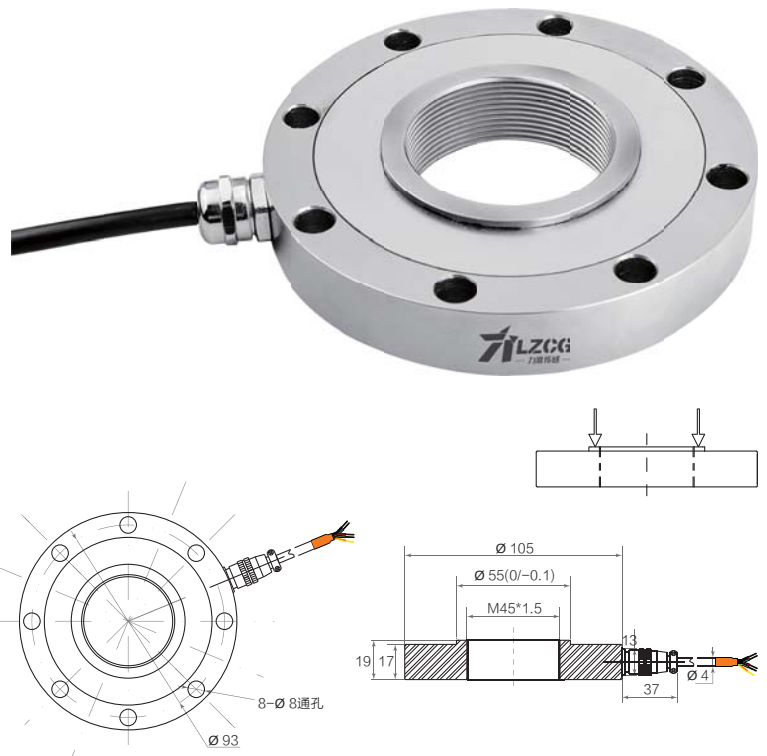
LFC-68



LFC-68规格参数 Specifications

量程 Capacity	0~0.2,0.3,0.5,1,2t
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05~0.1% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LFC-105



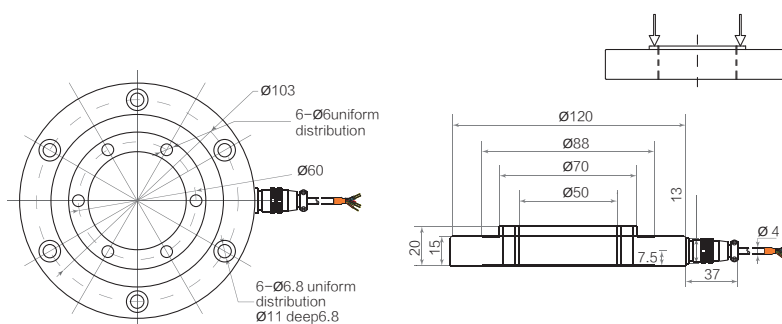
LFC-105规格参数 Specifications

量程 Capacity	0~0.5,1,2,3,5t
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

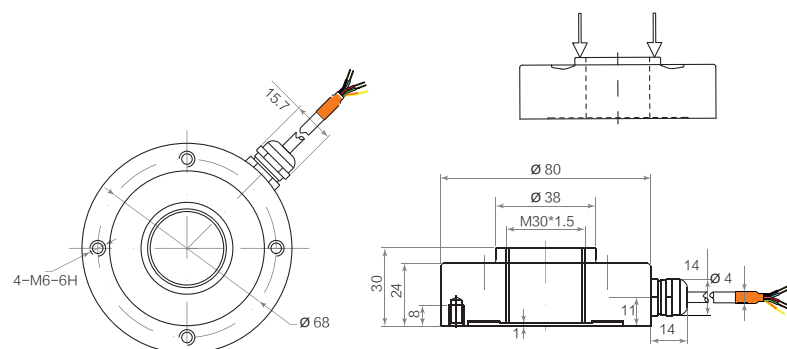
LFC-120

LFC-120规格参数 Specifications

量程 Capacity	0~0.5,1,2,3,5t
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	



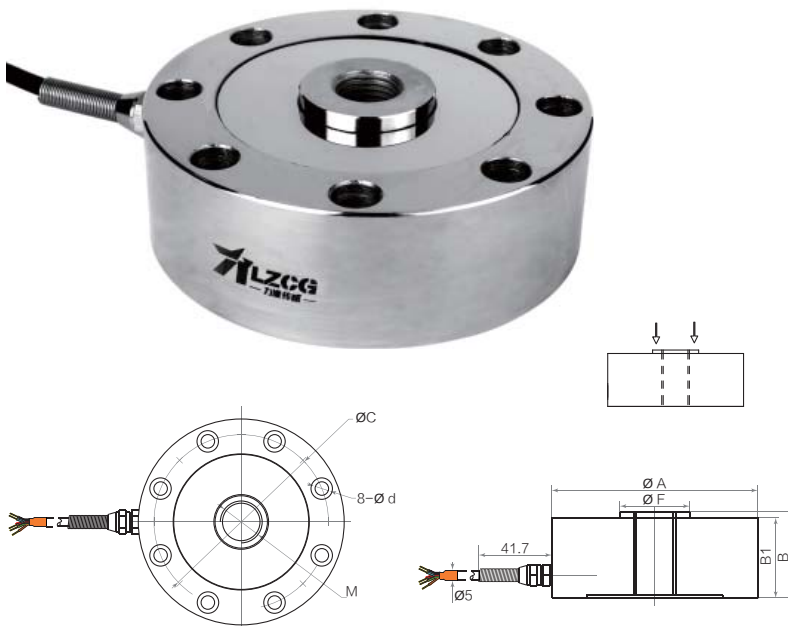
LFC-80



LFC-80规格参数 Specifications

量程 Capacity	0~0.5,1,2,3,5t
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.5~2.0 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LFC-2

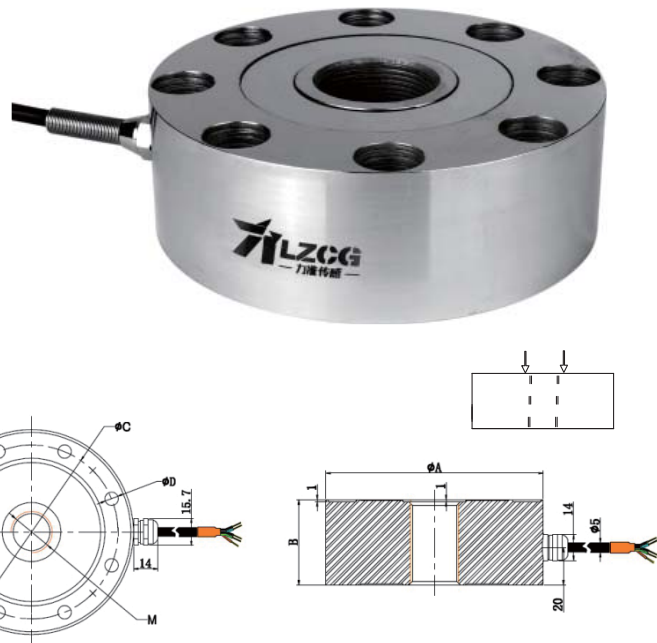


Capacity (t)	A	B	B1	C	d	F	M
0.5,1,2,3,5,7t	105	37	34	89	6.5	32	M16X1.5
10,15,20,25t	125	56	46	101.8	8.6	39	M30X1.5
30,45,50t	145	58	54	116.8	10.5	50	M40X1.5
60,75,100t	205	85	78	162	12.5	80	M60X2

LFC-2规格参数 Specifications

量程 Capacity	0-10a0t
材质 Material	Stainless Steel/Alloy Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 5 × 3m
TEDS 可选	

LFC-2A



Capacity (t)	A	B	C	D	M
1,2,3,5t	118	46	100	9	M24X2
5,7 t	120	40	102	10.5	M32X1.5
10t	138	60	116	11	M39X2
15,20t	186	70	154	14	M50X2

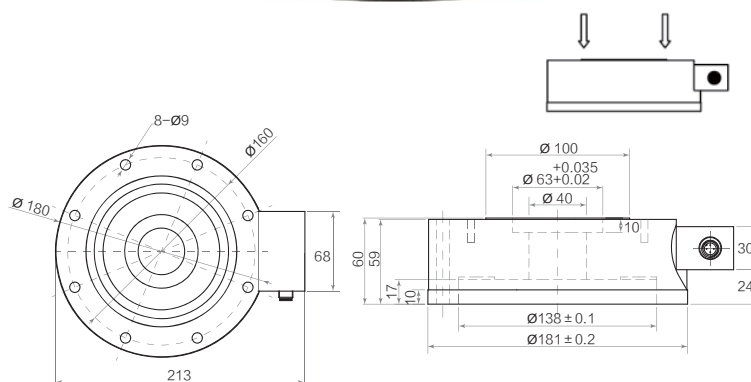
LFC-2A规格参数 Specifications

量程 Capacity	0-20t
材质 Material	Stainless Steel/Alloy Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 5 × 3m
TEDS 可选	

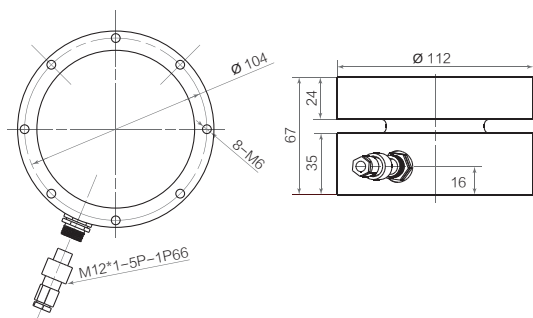
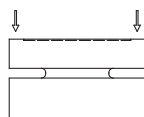
LFC-181

LFC-181规格参数 Specifications

量程 Capacity	0-10,15,20,34t
材质 Material	Stainless Steel/Alloy Steel
输出灵敏度 Rated Output	1.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10-15V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	



LFC-112



LFC-112规格参数 Specifications

量程 Capacity	0-20,30,50KN
材质 Material	Stainless Steel/Alloy Steel
输出灵敏度 Rated Output	1.5 ± 10% mV/V
零点输出 Zero Balance	2 % F.S.
非线性 Non-linearity	0.1-0.05 % F.S.
滞后 Hysteresis	0.1-0.05 % F.S.
重复性 Repeatability	0.1-0.05 % F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	750 ± 5 Ω
绝缘电阻 Insulation	≥5000MΩ
使用电压 Recommended Excitation	3-10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	



柱式传感器
Column Force Sensor

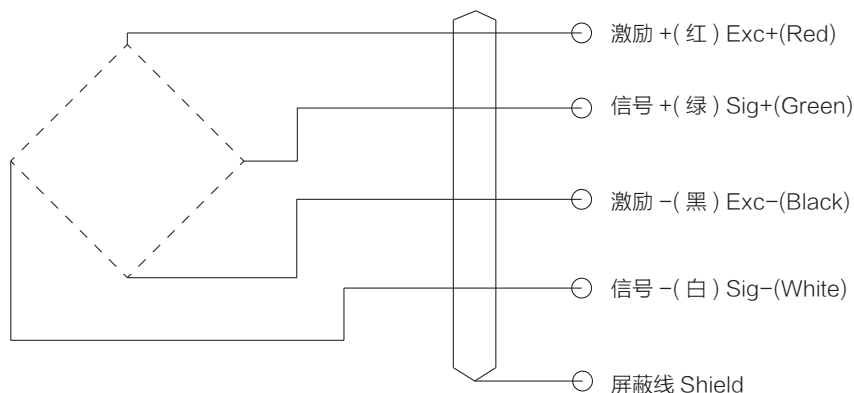
柱式结构传感器

- 1、结构特点：柱式或筒式型结构
- 2、特点：结构紧凑,强度高,动态响应高
- 3、动态响应频率小于 2000Hz

Column Type force sensor

- 1、Structure features: column or cylinder type
- 2、Features: compact structure, high strength
- 3、Dynamic response frequency: less than 2000Hz

传感器接线示意图 Wire Connection



应用领域 Application



1、注塑和模具行业

合模力值的检测和控制, 装配力值检测, 装配间隙和压入力值检测和控制

1、Injection molding and mold industry:

Clamping force measurement and control, Press-in force and assembling gap detection and control



2、机器人

机器人手指抓取力值的检测和控制, 压入、拉压力的检测和控制

2、Robots

Grasping force measurement and control of robot fingers, compression or tension, press in force measurement and control.



3、汽车

装配力值检测、压入力值检测

3、Auto Industry

Assembling force, press-in force, polishing and welding force measurement and control.

LF-601



Model	Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
LF601-H76	5t	60	18	30	40	11	16	10	76	60	11	5	14	14	15.7	5	4	38
LF601-H80-01	0.2~10t	60	18	40	50	11	20	10	80	56	15	6	14	14	15.7	5	8	50
LF601-H80-02	3t	60	18	28	40	11	20	10	80	64	11	5	14	14	15.7	5	4	38

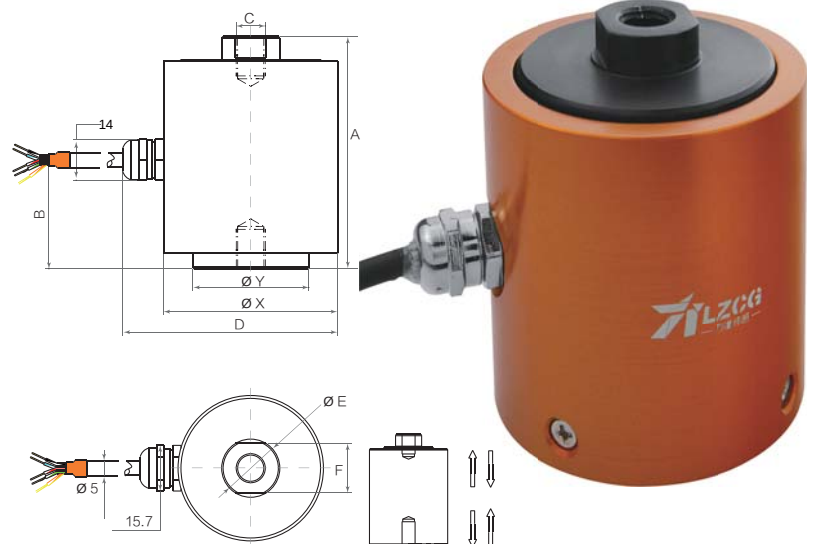
LF-601规格参数 Specifications

量程 Capacity	0~0.2,0.5,1,3,5,10t
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	

LF-602

LF-602规格参数 Specifications

量程 Capacity	0~3000kg
材质 Material	Aluminum/Alloy Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	

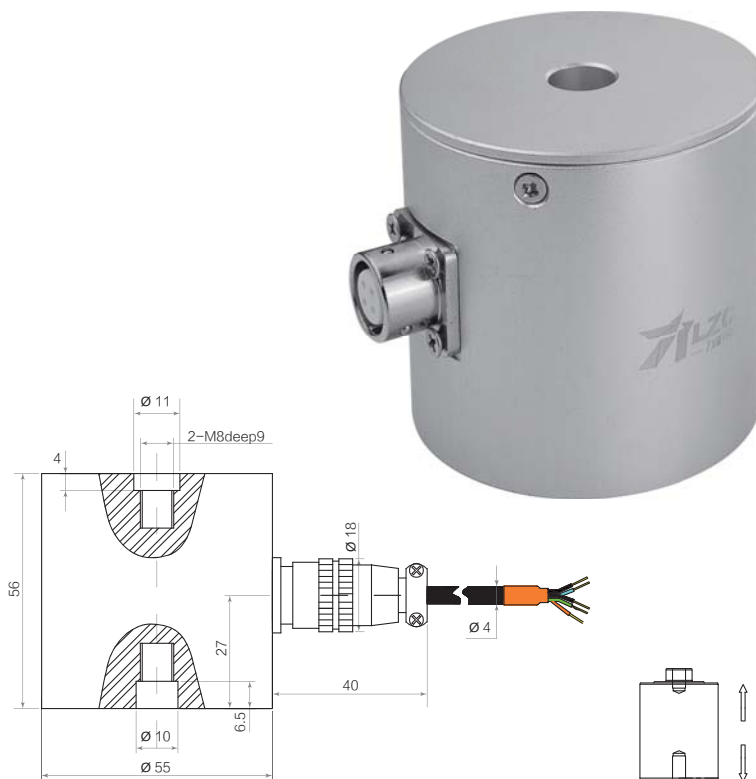


Model	A	B	C	D	E	F	X	Y
50/100/150/200/500kg	80	37.5	M10*1.5-6H	74	20	17	60	40
1000/2000/3000kg	120	45	M20*1.5-6H	74	36	30	60	40

LF-602A

LF-602A规格参数 Specifications

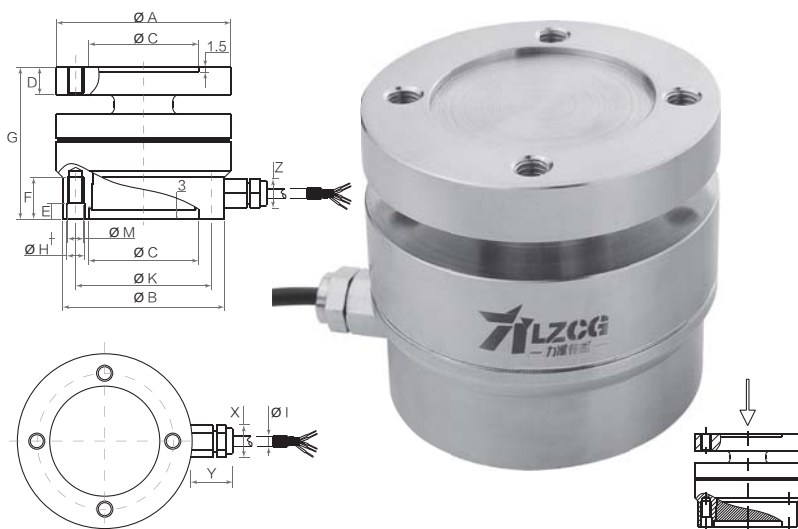
量程 Capacity	0-5,10,20,30kg
材质 Material	Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	



LF-603

LF-603规格参数 Specifications

量程 Capacity	0~100KN
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.0-1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1-0.5% F.S.
滞后 Hysteresis	0.1-0.5% F.S.
重复性 Repeatability	0.1-0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	200%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	Ø 3(5) x 3m
TEDS 可选	



Model	A	B	C	D	E	F	G	H	K	X	Y	I	J	Z	M
0.5-10KN	54	50	34	8.5	5	13	47	5.5	42	10	13	3	9	9	8-M5
20-100KN	95	90	55	15	5.5	20	72	11	70	15.7	14	5	10.5	14	16-M10

LF-605



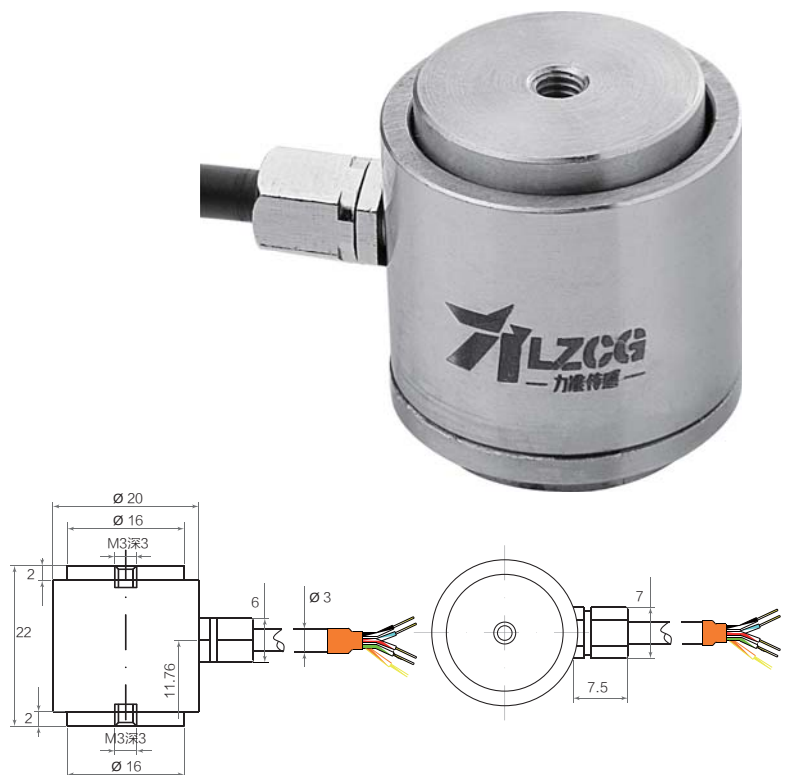
LF-605规格参数 Specifications

量程 Capacity	0~1000kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LF-605A

LF-605A规格参数 Specifications

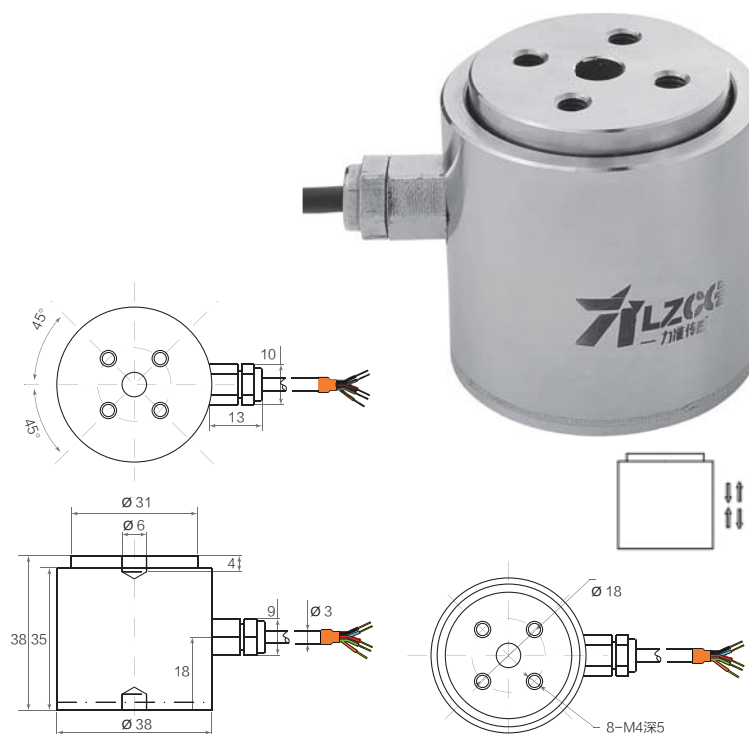
量程 Capacity	0~1,2,5,10,20,50,100kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3~5V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	



LF-605B

LF-605B规格参数 Specifications

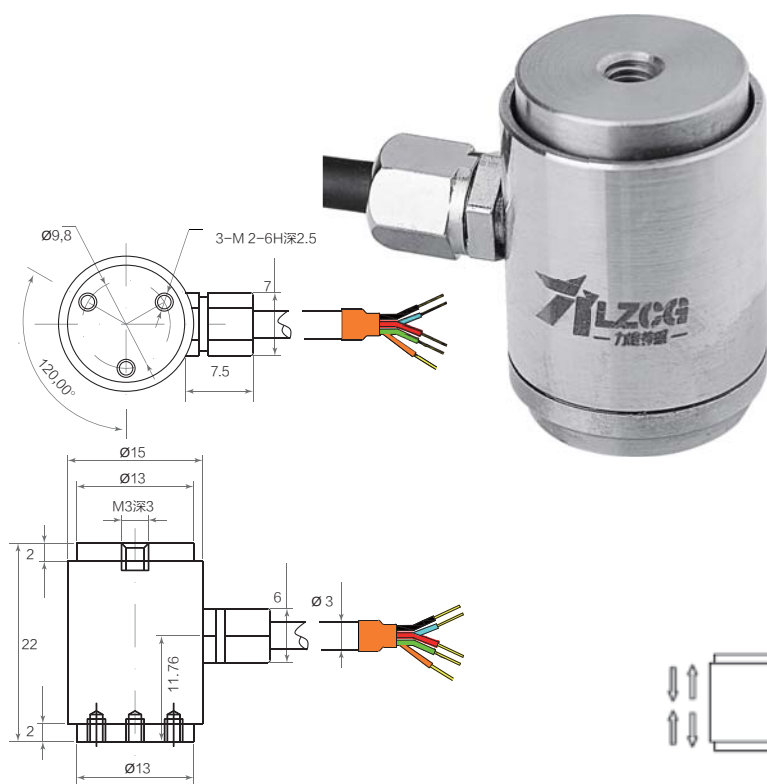
量程 Capacity	0~5,10,20,30,50,100kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	



LF-605C

LF-605C规格参数 Specifications

量程 Capacity	0~1,2,3,5,10,15,20kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05~0.1% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3~5V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	



LF-605D



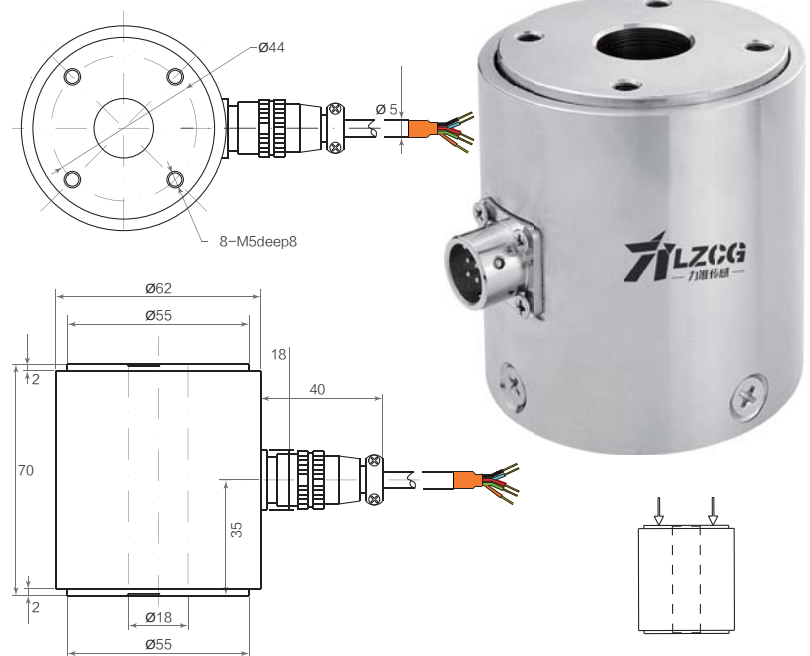
LF-605D规格参数 Specifications

量程 Capacity	0~50,100,200,300,500,1000kg
材质 Material	Stainless Steel/Alloy Steel
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	1400Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LF-609

LF-609规格参数 Specifications

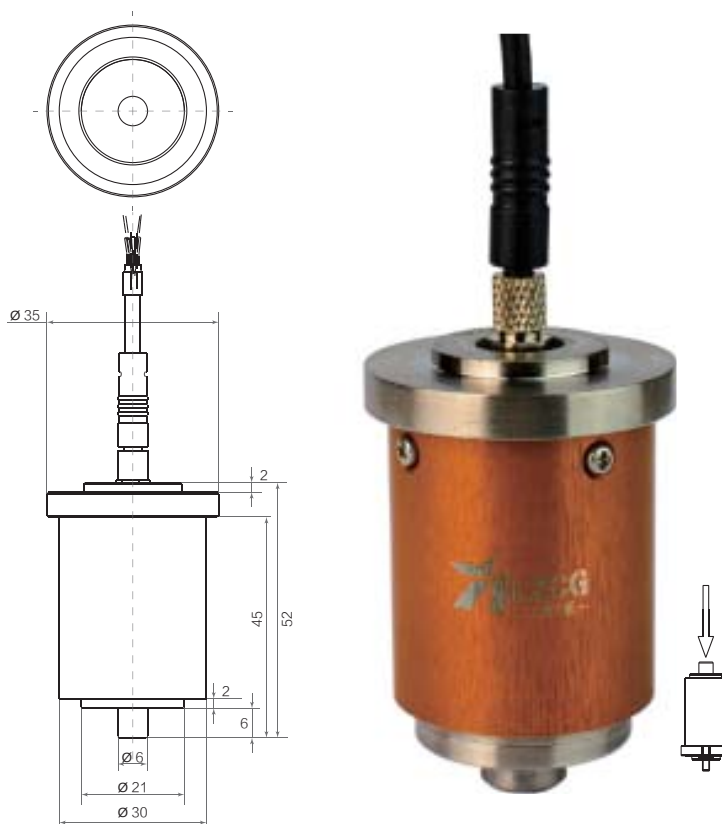
量程 Capacity	0~0.5,1,2,3,5,10t
材质 Material	Stainless Steel/Alloy Steel
输出灵敏度 Rated Output	1.0~1.5mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.5% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	700Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10~15V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	



LF-611

LF-611规格参数 Specifications

量程 Capacity	0-0.5,1,2,3,5,10,20,30,50kg
材质 Material	Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.05-0.1% F.S.
滞后 Hysteresis	0.05% F.S.
重复性 Repeatability	0.05% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	3-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	



LF-610



LF-610规格参数 Specifications

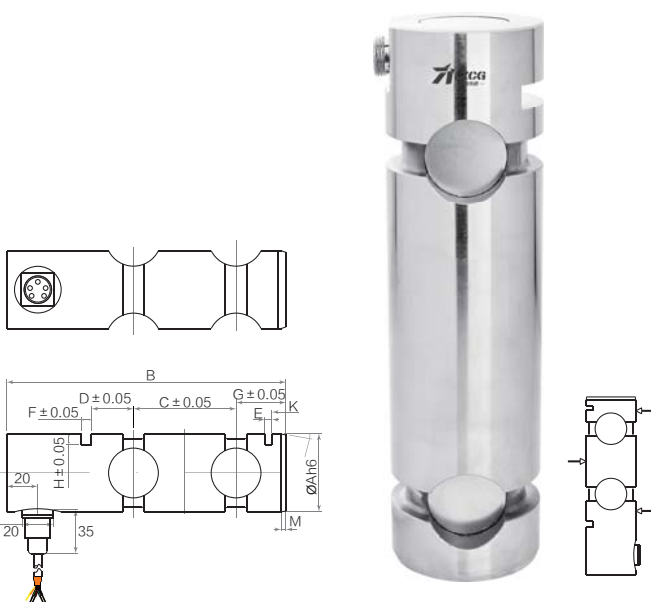
量程 Capacity	0-2,3,5,10,20,30,50KN
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.0 ± 10% mV/V
零点输出 Zero Balance	0.5% F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	± 2% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S./30min
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	≥5000MΩ
绝缘电阻 Insulation	10VDC
使用电压 Recommended Excitation	- 20 ~ 80 °C
工作温度范围 Operating Temp Range	150%
安全过载 Safe Overload	300%
极限过载 Maximum Overload	Ø 3 x 3m
电缆线规格 Cable Specifications	

TEDS 可选



轴销类传感器
Load Pin

LF-39



Capacity(t)	A	B	C	D	E	F	G	H	K	M
2/3/5	50	180	66	27	4.5	6.5	32	7	9	3
7/10	60	190	96	14	10	9	33	9	9	5
10/15	65	210	116	14	10	9	32	9	8	5
20/30	80	225	109	20	12	11	40	10	8	6
40/50/100	120	275	153	25	14	13	51	15	12	6

LF-39规格参数 Specifications

量程 Capacity	0~2,3,5,7,10,20,30,40,50,100t
输出灵敏度 Rated Output	1.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.5% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
材质 Material	Stainless Steel
阻抗 Impedance	350 or 700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度 范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe overload	150%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	∅ 5 x 3m
TEDS 可选	

LF-57

LF-57规格参数 Specifications

量程 Capacity	0~0.5,1,2,3,5,10,20,30,50t
输出灵敏度 Rated Output	1.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.5% F.S.
滞后 Hysteresis	0.5% F.S.
重复性 Repeatability	0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
材质 Material	Stainless steel / Alloy Steel
阻抗 Impedance	700 or 350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10~15V
工作温度 范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe overload	100%
极限过载 Maximum Overload	300%
电缆线规格 Cable Specifications	∅ 5 x 3m
TEDS 可选	



Capacity	A	B	∅ C	∅ D	E	F
0.5/1/2	13.5	31	44	25	4.5	6.5
3/5	18	47	44	35	6	6.5
10	27	66	50	50	7	8.5
20	32.5	90	65	65	9.5	8.5
30	40	100	75	75	10.5	10.5
50	49	117	85	85	12.5	10.5



秤重类传感器
Load Cell

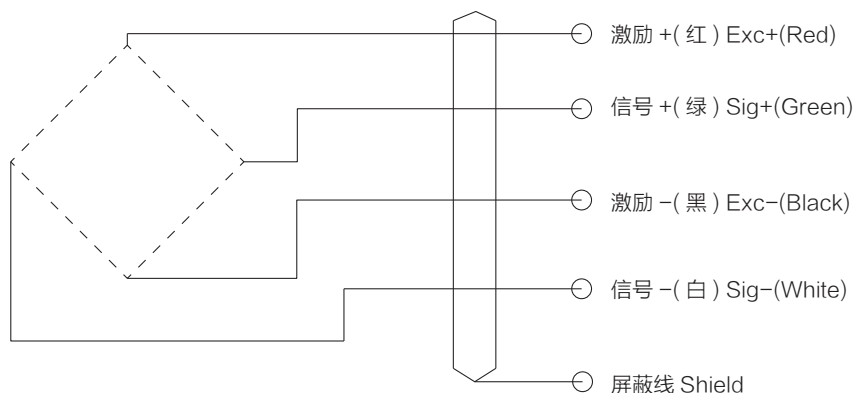
称重类传感器

- 1、结构特点：平行梁式结构；
- 2、特点：精度高，抗偏载能力强，量程可以做到 50g 以下
- 3、动态响应频率小于 100Hz，多用于静态测试

Single Point load cell

- 1、Parallel type
- 2、Features: high accuracy, high anti side load, capacity can be to 50g
- 3、Dynamic response frequency: less than 100Hz, mainly used for static force measurement

传感器接线示意图 Wire Connection



应用领域 Application



- 1、电子秤
电子天平、平台秤等产品

- 1、Electrical scales
Electrical Balance, platform scales

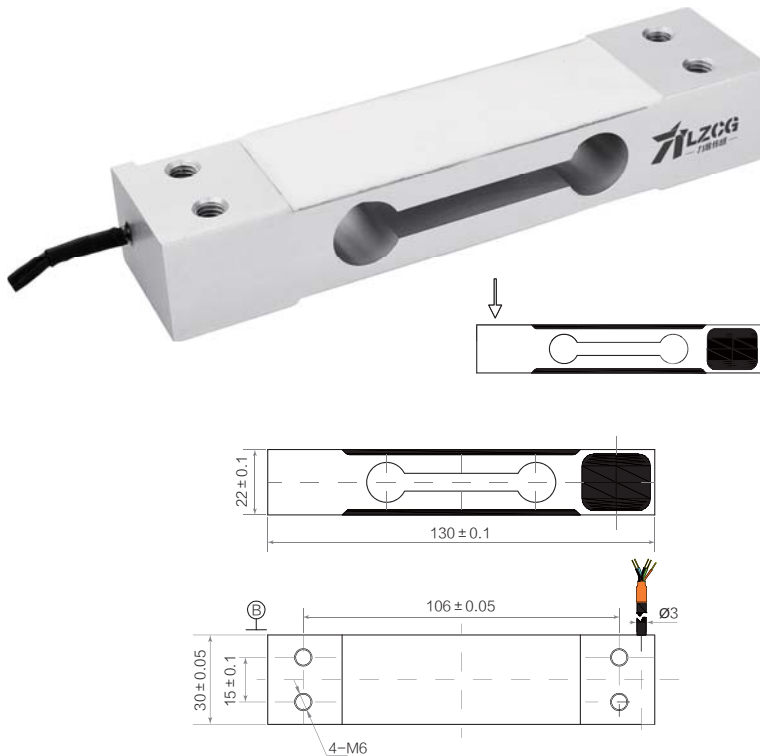


- 2、半导体行业
焊接力的测量、张力检测，装配过程检测
等力值检测和控制
- 2、Semi-Conductor
Tension, welding force measurement, and force measurement and control in assembling Process.



- 3、纺织、造纸行业
张力检测
- 3、Textile, papermaking.

LFP-10



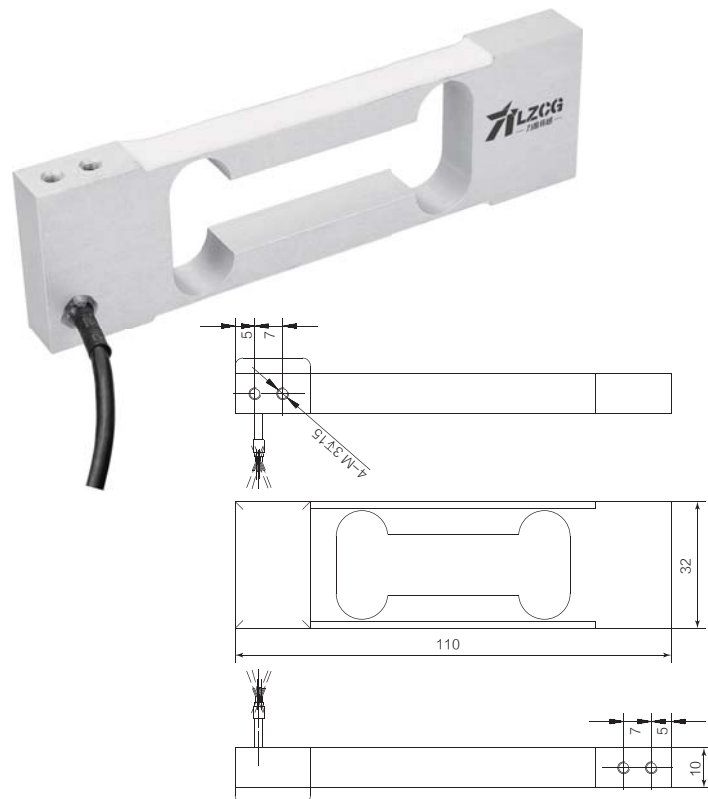
LFP-10规格参数 Specifications

量程 Capacity	0~3,5,10,15,20,30,40,50kg
材质 Material	Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.025% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.025% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 45cm
TEDS 可选	

LFP-11

LFP-11规格参数 Specifications

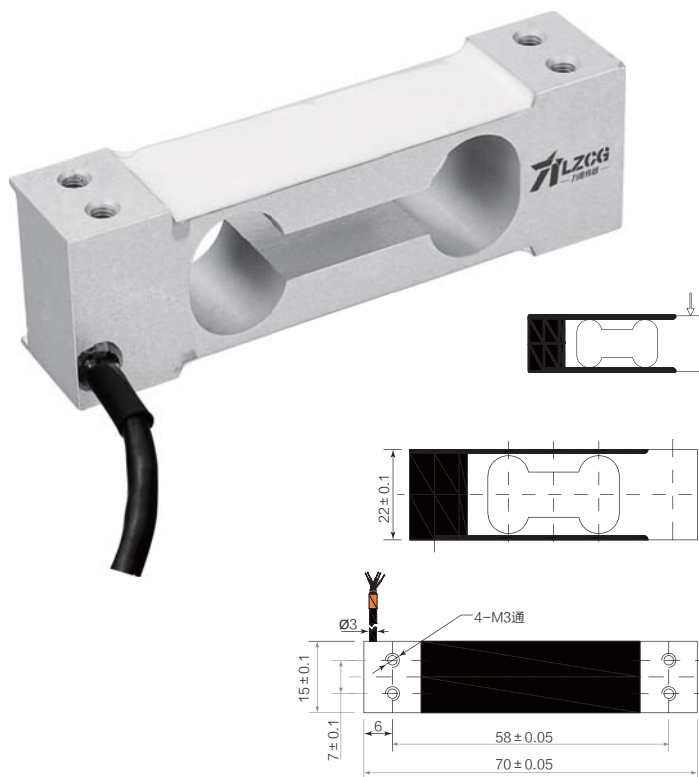
量程 Capacity	0~0.3,0.5,0.6,1,2kg
材质 Material	Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.025% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.025% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 45cm
TEDS 可选	



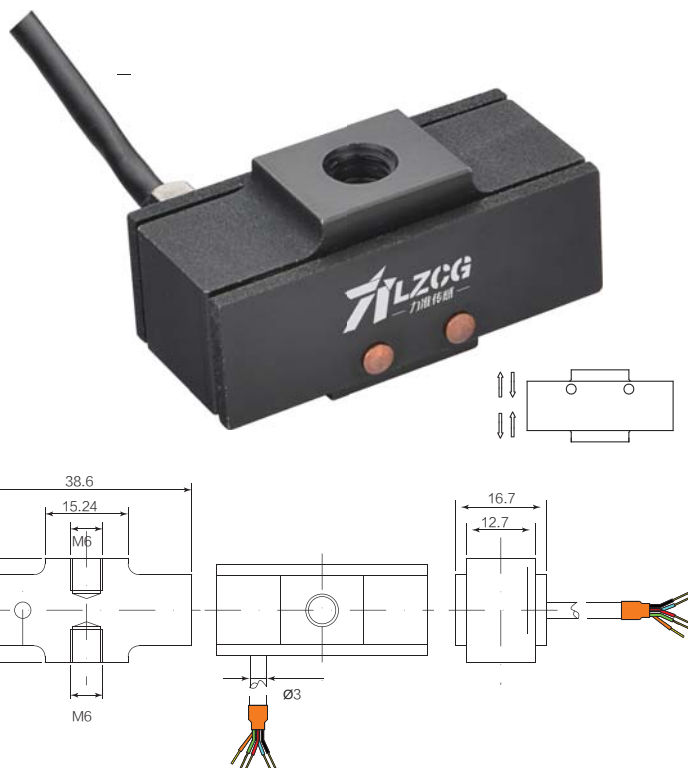
LFP-12

LFP-12规格参数 Specifications

量程 Capacity	0~0.3,0.5,0.6,1,2,3,5,6,10kg
材质 Material	Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.025% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.025% F.S. / 10°C
阻抗 Impedance	350Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 45cm
TEDS 可选	



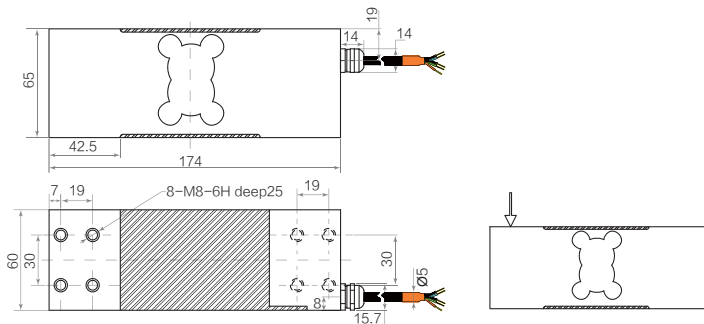
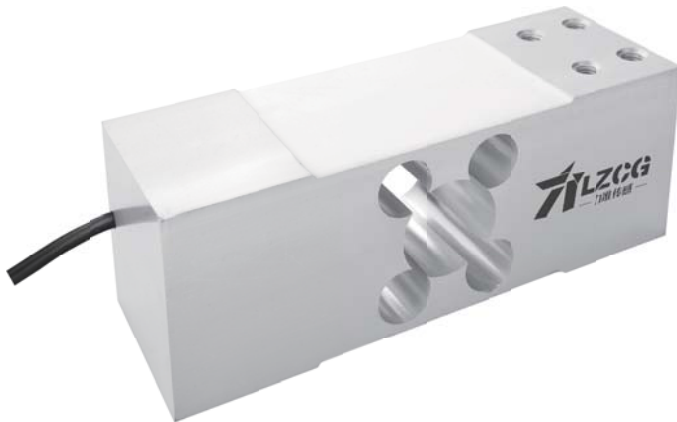
LFP-16



LFP-16规格参数 Specifications

量程 Capacity	0~2,5,10,20,30,50kg
材质 Material	Aluminum
输出灵敏度 Rated Output	1.5 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LFP-17



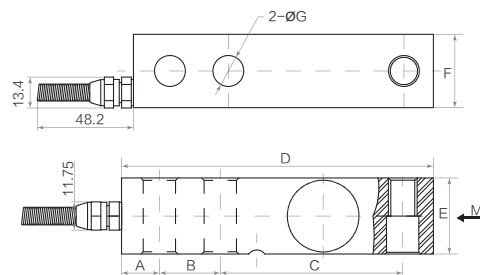
LFP-17规格参数 Specifications

量程 Capacity	0-50,60,100,150,200,300,500,600,750kg
材质 Material	Aluminum
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.025% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.025% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	

LF-51

LF-51规格参数 Specifications

量程 Capacity	0~0.1,0.2,0.5,1,2,5,7.5,10t
材质 Material	铝/不锈钢 Aluminum/Stainless Steel
输出灵敏度 Rated Output	2.0/3.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.03% F.S.
滞后 Hysteresis	0.03% F.S.
重复性 Repeatability	0.03% F.S.
蠕变 (30分钟) Creep (30min)	0.03% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥2000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 5 x 3m
TEDS 可选	

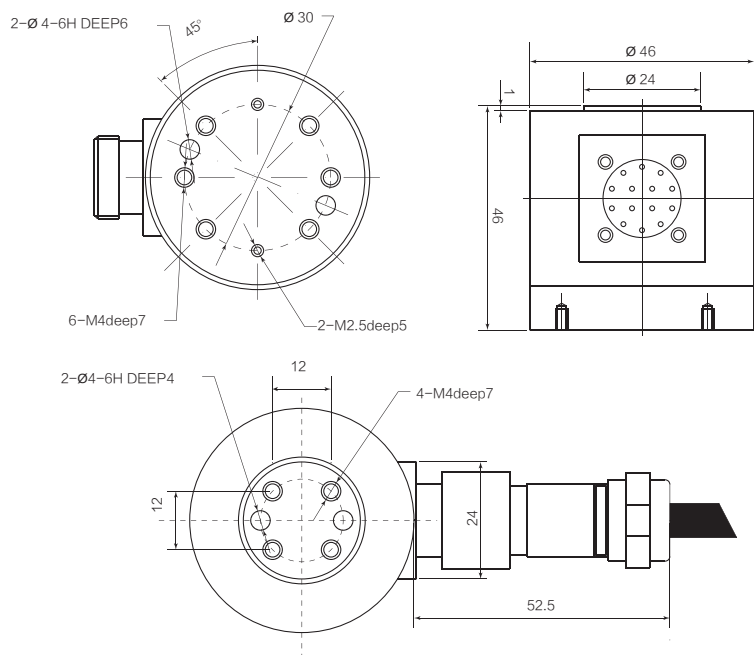
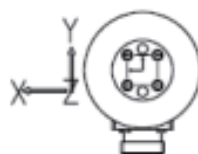


量程Capacity	A	B	C	D	E	F	G	H
100,200,250kg	15.8	25.4	76.2	130	25.4	31.8	13.5	2 1/20UNF M12×1.75
500,1000,1500,2000kg	15.8	25.4	76.2	130	31.8	31.8	13.5	2 1/20UNF M12×1.75
2500,5000kg	19.1	38.1	95.3	172	38.1	38.1	19.8	3/4-16UNF M20×2.5
7500,10000kg	25.4	50.8	124	226	50.8	50.8	26.2	1 1/4-12UNF M30×2



多轴力传感器
Multi-axis Force Sensor

LF-303B

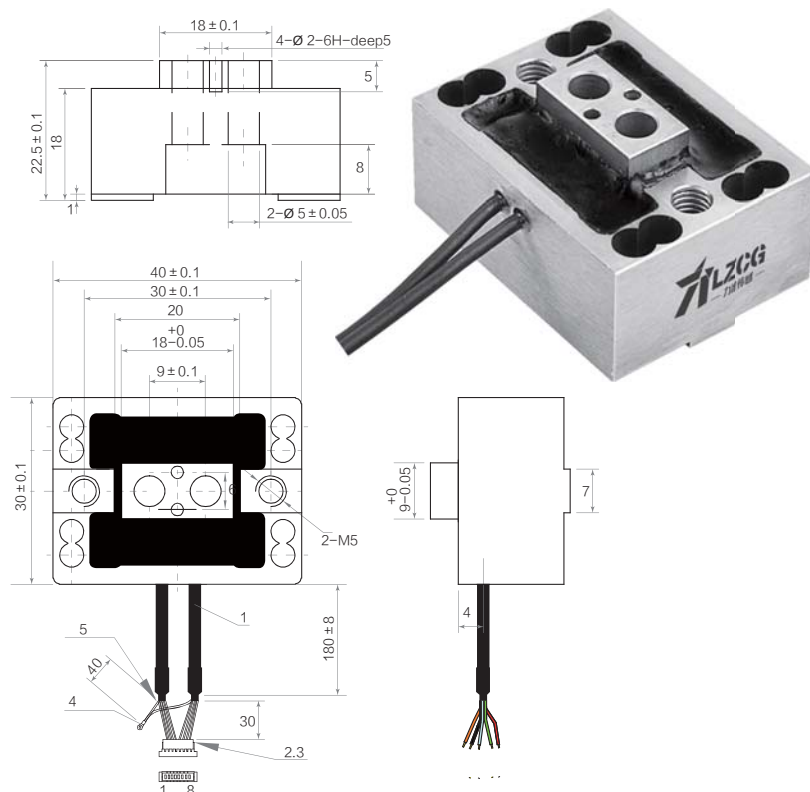


三个方向的力值耦合误差% The Coupling Error of three direction			
	X	Y	Z
X	-	± 2	± 8
Y	± 2	-	± 8
Z	± 8	± 8	-

LF-303B规格参数 Specifications

量程 Capacity	X:5/10/20/50kg Y:5/10/20/50kg Z:5/10/20/50/100kg
材质 Material	Stainless Steel
输出灵敏度 Rated Output	1.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1% F.S.
滞后 Hysteresis	1% F.S.
重复性 Repeatability	1% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10℃
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10℃
阻抗 Impedance	350 or 700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	- 20 ~ 80 ℃
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	12 Pin Connector
TEDS 可选	

LF-202M



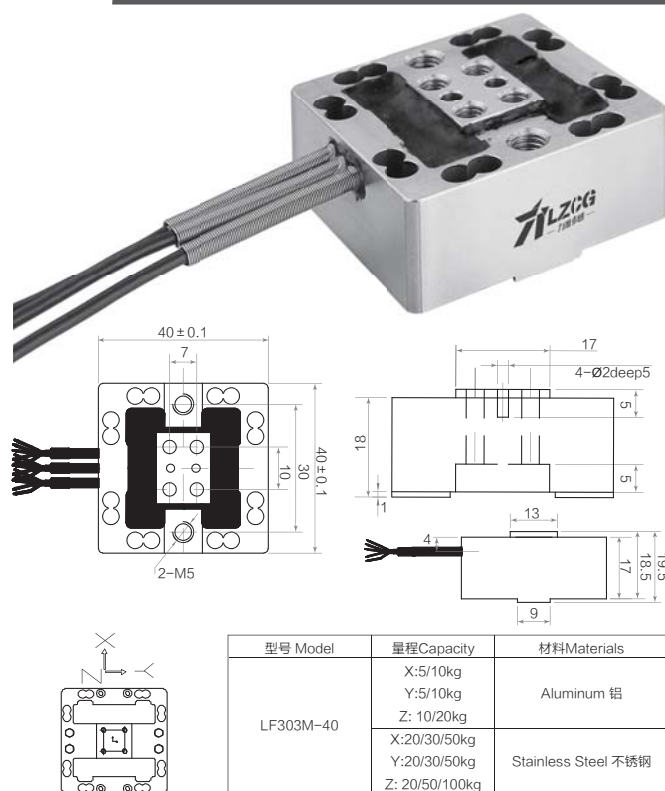
LF-202M 系列规格参数 Specifications

输出灵敏度 Rated Output	2.0mv/v ± 10 % 0~5v DC three wire 4~20mA two wire
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1~0.5% F.S.
滞后 Hysteresis	0.1~0.5% F.S.
重复性 Repeatability	0.1~0.5% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.1% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.1% F.S. / 10°C
阻抗 Impedance	350~700 ± 3 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V for sensor 24V ± 8V for transmitter
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	2-Ø ~2-4P shield cable
TEDS 可选	

LF303M-40规格参数 Specifications

量程 Capacity	X:5/10/20/50kg Y:5/10/20/50kg Z:5/10/20/50/100kg
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0~3.0 % F.S.
滞后 Hysteresis	1.0 % F.S.
重复性 Repeatability	0.05 % F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C
阻抗 Output Impedance	350(700) Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	可按需制作 As Request
TEDS 可选	

LF303M-40

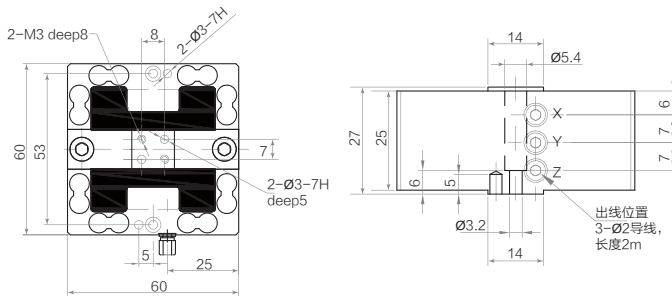


型号 Model	量程 Capacity	材料 Materials
LF303M-40	X:5/10kg Y:5/10kg Z: 10/20kg	Aluminum 铝
	X:20/30/50kg Y:20/30/50kg Z: 20/50/100kg	Stainless Steel 不锈钢

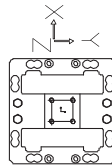
三个方向的力值耦合误差 % The Coupling Error of three direction for LF303M Series

	X	Y	Z
X	-	± 3	± 5
Y	± 3	-	± 8
Z	± 5	± 5	-

LF303M-60



型号 Model	量程 Capacity	材料 Materials
LF303M-60	X: 5/10kg Y: 5/10kg Z: 10/20kg	Aluminum 铝
	X: 20/30/50kg Y: 20/30/50kg Z: 20/50/100kg	Stainless Steel 不锈钢



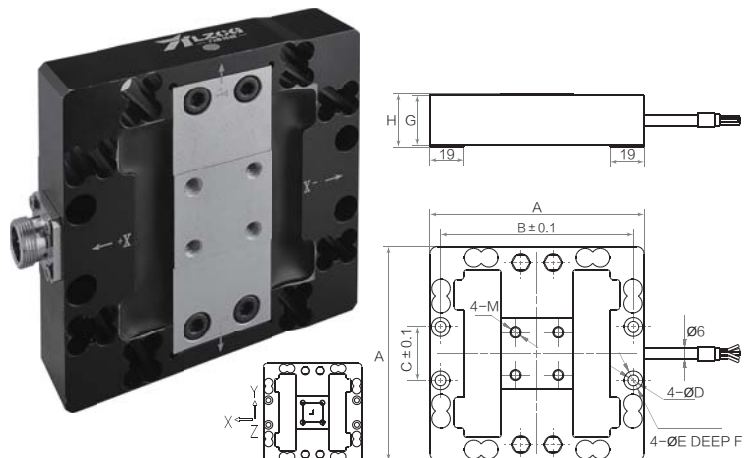
LF303M-60 系列规格参数 Specifications

量程 Capacity	X: 5/10/20/50kg Y: 5/10/20/50kg Z: 5/10/20/50/100kg
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0~3.0 % F.S.
滞后 Hysteresis	1.0 % F.S.
重复性 Repeatability	0.05 % F.S.
蠕变 (30分钟) Creep (30min)	0.05 % F.S.
温度灵敏度漂移 Temp Effect on Output	0.05 % F.S. / 10℃
零点温度漂移 Temp Effect on Zero	0.05 % F.S. / 10℃
输出阻抗 Output Impedance	350(700) ± 3 Ω
绝缘电阻 Insulation	≥ 5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 ℃
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	可按需制作 As Request
TEDS 可选	

LF303M-120/160 系列规格参数 Specifications

量程 Capacity	X: 5/10/20/30/50/100/200/300/500kg Y: 5/10/20/30/50/100/200/300/500kg Z: 10/20/30/50/100/200/500/1000kg X: 300/500/1000/2000/2500kg Y: 300/500/1000/2000/2500kg Z: 500/1000/1500/2000/2500/3000kg
材质 Material	铝/不锈钢 Aluminum/Stainless Steel
输出灵敏度 Rated Output	1.0~1.5 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	1.0 % F.S.
滞后 Hysteresis	1.0 % F.S.
重复性 Repeatability	0.5 % F.S.
蠕变 (30分钟) Creep (30min)	0.5 % F.S.
温度灵敏度漂移 Temp Effect on Output	0.05 % F.S. / 10℃
零点温度漂移 Temp Effect on Zero	0.05 % F.S. / 10℃
输出阻抗 Output Impedance	350(700) ± 3 Ω
绝缘电阻 Insulation	≥ 5000MΩ
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 ℃
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%

LF303M-120/160

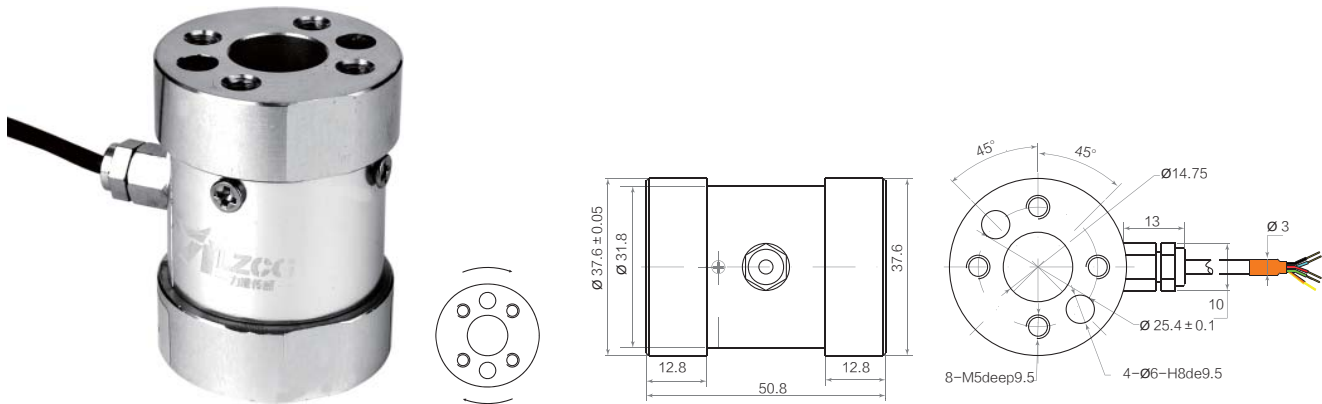


型号 Model	量程 Capacity	材料 Materials	A	B	C	D	E	F	L	K	G	H	M
LF303M-120	X: 5/10/20/30/50/100kg Y: 5/10/20/30/50/100kg Z: 5/10/20/30/50/100kg	Aluminum 铝	120	108	30	6.1	10.5	8	24	24	28	30	6
	X: 100/200/300/500kg Y: 100/200/300/500kg Z: 200/300/500/1000kg	Stainless Steel 不锈钢	120	108	30	6.1	10.5	8	24	24	28	30	6
	X: 300/500/1000/ 2000/2500kg Y: 300/500/1000/2000/2500kg Z: 500/1000/2000/2500/3000kg	Stainless Steel 不锈钢	160	110	26	12.1	20	16	28	28	62	66	10



静态扭矩传感器
Statical Torque Sensor

LT-01

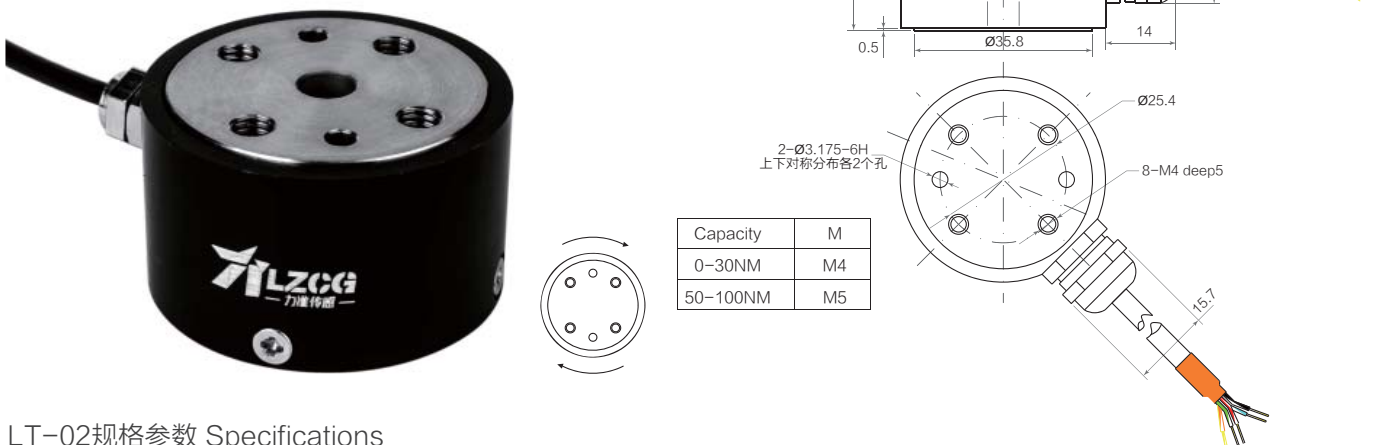


LT-01规格参数 Specifications

量程 Capacity	0~0.1,0.2,0.5,1,2,3,5,10,20,30,50,60,100NM
输出灵敏度 Rated Output	1.5~2.0 mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LT-02

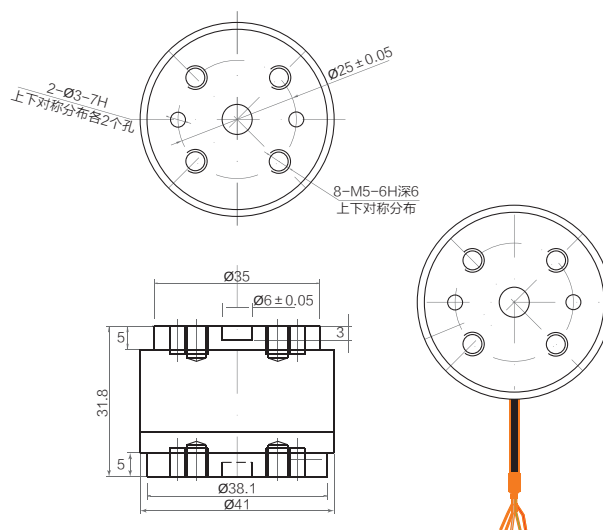


LT-02规格参数 Specifications

量程 Capacity	0~1,2,3,5,10,20,30,50,100NM
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum/Alloy Steel
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5~10V
工作温度范围 Operating Temp Range	- 20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LT-03

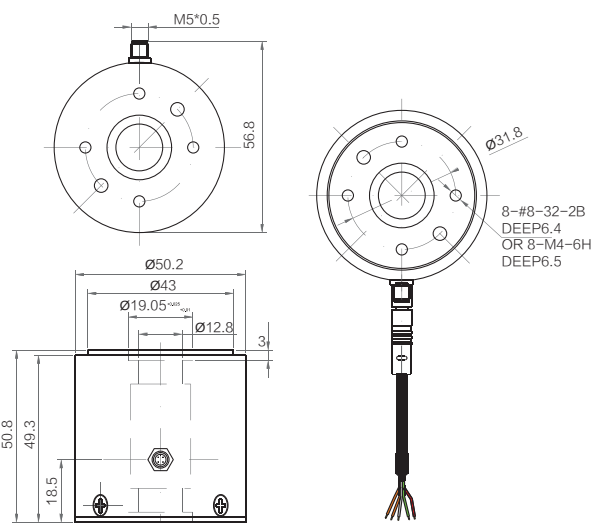


LT-03规格参数 Specifications

量程 Capacity	0~1,2,3,5,10,20,30,50,100NM
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	10V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	Ø 4 x 3m
TEDS 可选	

LT-04

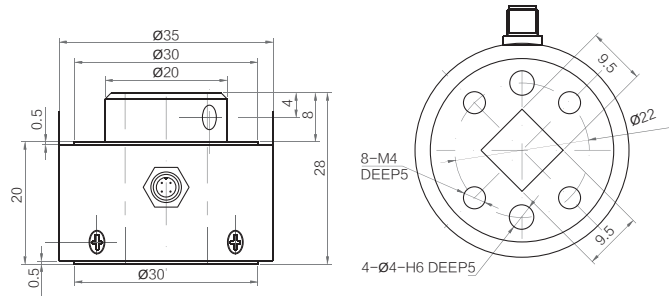


LT-04规格参数 Specifications

量程 Capacity	0~1,2,3,5,10,20,30,50NM
输出灵敏度 Rated Output	2.0 ± 10% mV/V
零点输出 Zero Balance	± 2 % F.S.
非线性 Non-linearity	0.2% F.S.
滞后 Hysteresis	0.2% F.S.
重复性 Repeatability	0.2% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05 % F.S. / 10°C

材质 Material	Aluminum/Alloy Steel
阻抗 Impedance	700 Ω
绝缘电阻 Insulation	≥5000MΩ/100VDC
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	-20 ~ 80 °C
安全过载 Safe Overload	150%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	Ø 3 x 3m
TEDS 可选	

LT-06

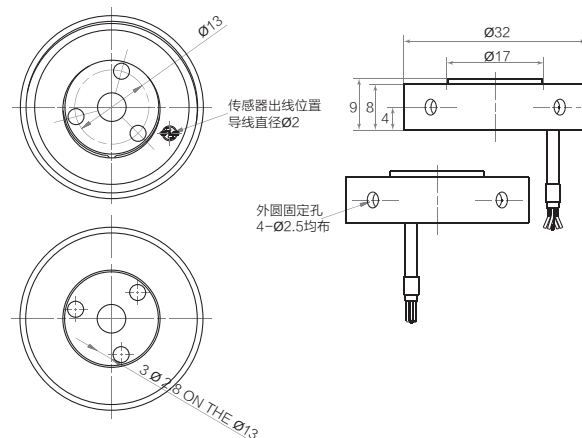


LT-06规格参数 Specifications

量程 Capacity	1,2,3,5,10,20,30,50NM
输出灵敏度 Rated Output	$2.0 \pm 10\%$ mV/V
零点输出 Zero Balance	$\pm 2\%$ F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.1% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum/Alloy Steel
阻抗 Impedance	750 Ω
绝缘电阻 Insulation	$\geq 5000\text{M}\Omega/100\text{VDC}$
使用电压 Recommended Excitation	5-10V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	200%
电缆线规格 Cable Specifications	$\varnothing 3 \times 3\text{m}$
TEDS 可选	

LT-12



LT-12规格参数 Specifications

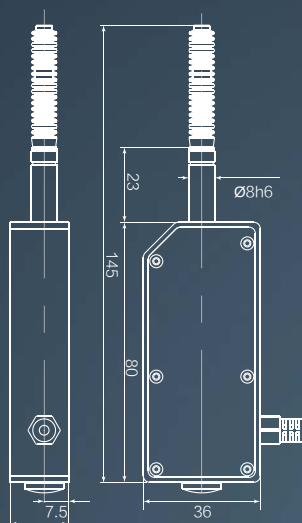
量程 Capacity	0-0.1,0.2,0.3,0.5,1,2,3,5 NM
输出灵敏度 Rated Output	$2.0 \pm 10\%$ mV/V
零点输出 Zero Balance	$\pm 2\%$ F.S.
非线性 Non-linearity	0.1% F.S.
滞后 Hysteresis	0.1% F.S.
重复性 Repeatability	0.1% F.S.
蠕变 (30分钟) Creep (30min)	0.05% F.S.
温度灵敏度漂移 Temp Effect on Output	0.05% F.S. / 10°C
零点温度漂移 Temp Effect on Zero	0.05% F.S. / 10°C

材质 Material	Aluminum
阻抗 Impedance	350 Ω
绝缘电阻 Insulation	$\geq 5000\text{M}\Omega/100\text{VDC}$
使用电压 Recommended Excitation	5V
工作温度范围 Operating Temp Range	-20 ~ 80°C
安全过载 Safe Overload	120%
极限过载 Maximum Overload	150%
电缆线规格 Cable Specifications	$\varnothing 2 \times 3\text{m}$
TEDS 可选	

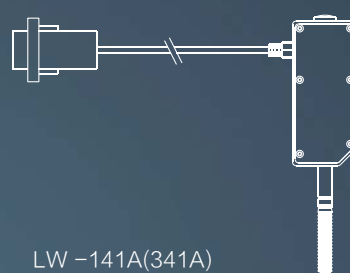
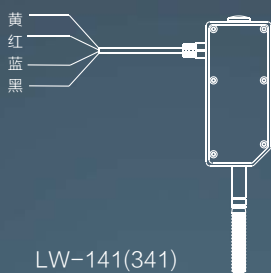


微型位移传感器 Micro-Displacement Sensor

外形尺寸 Dimensions



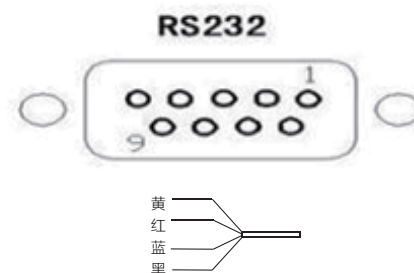
规格类型 Model type



技术指标 Specifications

类型Type	规格			
	10 μ	1 μ	10 μ	1 μ
型号 Model	LW-141	LW-341	LW-141A	LW-341A
检测系统 Measuring System	容栅测量系统, 玻璃材料传感器 Capacitance measuring system, glass sensor			
测量范围 measuring range	12 mm	10mm	-	-
分辨率 resolution	10um	1um	10um	1um
重复定位精度 repeatability	10um	1um	10um	1um
全程精度 Total accuracy	20um	3um	20um	3um
工作电压 Working voltage	5V			
工作电流 Working Current	<18mA			
测量力 Measuring force	1.2N			
数据更新速度 Speed of update data	10ms (100次/S)			
外壳保护等级 Protection Class of Case	IP67(带防尘套)			
使用寿命 Working time	反复测量 1000万次 (保证精度)			
出线方式 Cable exit	DB9针	DB9针	四芯出线	四芯出线
引线长度 Cable length	2m			
尺寸 Size	149 × 36 × 19mm 夹持位置直径 8mm			

端口输出说明 Output description



串口型 (LW-141A LW-341A) serial port		接线型(LW-141 LW-341) wire port	
引脚编号PIN	功能function	引脚颜色Color	功能function
2	TXD(数据 OUT)	黄 Yellow	5V (电源)
3	RXD(数据 IN)	红 Red	GND(地)
4	5V (电源)	蓝 Blue	RXD(数据 IN)
5	GND(地)	黑 Black	TXD(数据 OUT)



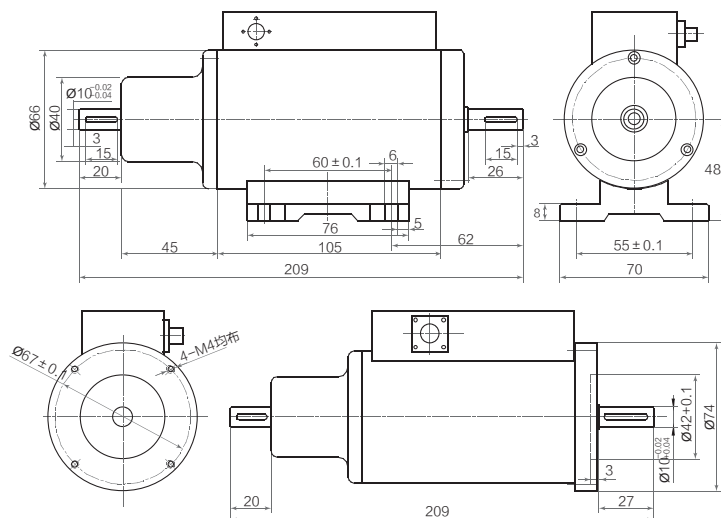
动态扭矩传感器
Dynamical Torque Sensor

LT-103微量程扭矩传感器

LT103 low capacity torque sensor



安装尺寸图



LT-103技术指标: Specifications

量程 Capacity	0.05Nm、0.1Nm、0.2Nm、0.5Nm、1Nm、2Nm
供电电源 Power Supply	±15V DC (适用频率信号输出)、24V DC (适用电压或电流信号输出) ±15V DC for Frequency output signal、24V DC for Voltage or Current Output
扭矩信号 Torque Signal	5~15Khz (幅值12V,零点10kHz)、4~20mA、1~5V、0~10V (可选) 5~15Khz (Range 12V,Zero 10kHz)、4~20mA、1~5V、0~10V (option)
转速量程 Speed Capacity	0~1000、3000、6000、8000转/分 0~1000、3000、6000、8000r.p.m
转速信号 Speed Signal	60脉冲/转(无积累误差,幅值12VDC)、4~20mA、1~5V 60 Pulse/revolution (without accumulated error, range 12VDC) 4~20mA 1~5V
精度 Accuracy	±0.25%、±0.5%
年稳定性 Stability per year	0.3%/年0.3%/Year
绝缘电阻 Insulation	≥200MΩ(100VDC)
环境温度 Environment Temperature	-20~60℃ (可定制高温型-20~120℃) -20~60℃ (Can custom -20~120℃)
相对湿度 Relative Humidity	0~90%RH
过载能力 Overload	150%
频率响应 Response Frequency	1ms

产品简介:

LT-103 微量程扭矩传感器适用于主要应用于微量程(2Nm 以下)扭矩的测量。当扭矩测量值小于 2Nm 时, 旋转体支撑轴承的摩擦力矩就成了不可忽略的干扰因素。LT-103 型采取应变区和供电、发射区分开布置, 使应变区避开轴承的影响, 有效的改善和提高了扭矩传感器的抗过载能力及测量精度。

LT-103 is mainly used in torque measurement of low capacity (under 2 Nm). When measuring torque values is less than 2 Nm, the friction torque of revolving support bearing can't be ignored as the main interference factors. Our LT-103's strain area and power supply, and launching region are separated, and make strain area to avoid the influence of the bearing, which effectively improve and enhance the overload resistance and measurement accuracy of torque sensor.

产品特点:

LT-103 微量程扭矩传感器是 LT-102 扭矩传感器的小量程方式: 当量程小于 2Nm 时, 传感器两端的支承轴承的摩擦力矩就成了不可忽略的干扰因素。LT-103 扭矩传感器在结构上与 LT-102 扭矩传感器的不同之处: 在于避免了轴承的摩擦力矩的干扰。

Features:

LT-103 is low capacity of LT-102 torque sensors. When capacity is less than 2Nm, the friction torque of support bearing of two side can't be ignored as the main interference factors. The difference between LT-103 and LT-102 is that LT103 avoid the interference of friction torque.

安装:

LT-103 扭矩传感器分 a、b 端, b 端为测量端, a 端为辅助, b 端通过联轴器与被测设备相联接, 安装时一定要避免附加弯矩。

Installation

There is a, b terminal for LT-103, b terminal is for measuring, and a terminal is auxiliary.

B terminal is connected with measured equipment by coupling, and have to avoid additional moment during installation.

使用注意:

1. 接线必须正确;
2. ±15V 的范围: 不得低于 ±14.5V 不得高于 ±15.5V;
3. 信号线输出不得对地, 对电源短路, 输出电流不大于 10mA;
4. 屏蔽电缆线的屏蔽层必须与 ±15V 电源的公共端(电源地)连接。
5. 本传感器弹性体非常精小, 严格限制过载, 过载范围 ≤20%, 否则极易损坏。
6. 使用中如有疑问请及时与本公司联系, 保修期之内不得自行拆卸。

Cautions:

1. Be sure that wire connection is correct.
2. ±15V: it means that not lower than ±14.5V, and not higher than ±15.5V;
3. Do not short cut Signal wire with GND and power, Output current is not higher than 10mA
4. Must connect shield coat of shield cable with circuit common (GND) of ±15V Power
5. The elastomer of this sensor is very small, be care not to overload, overload range ≤20%, otherwise, it is easy to be destroy.
6. If you have any questions, please directly contact with us, don't remove any parts during warranty period.

LT-102动态扭矩传感器

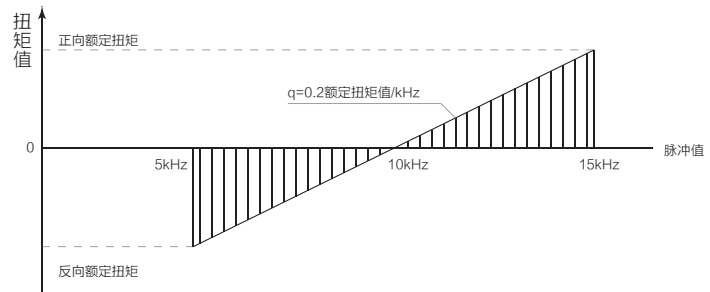
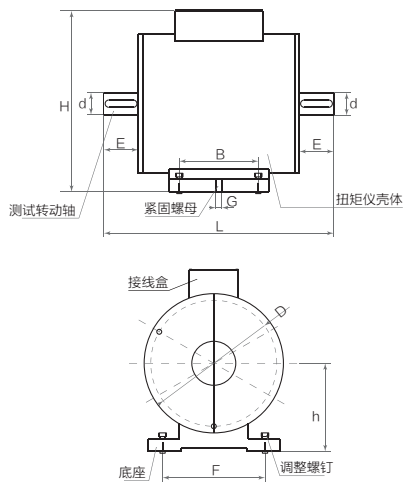


20Nm



20000Nm

结构示意图



技术特点 Characters

- 既可以测量静止扭矩,也可以测量旋转扭矩;
 - 检测精度高、稳定性好、抗干扰性强;
 - 体积小、重量轻、易于安装;
 - 不需反复调零即可连续测量正反扭矩;
 - 没有集流环等磨损件,可以高转速长时间运行;
 - 应变弹性体强度大,可承受 150% 载荷;
 - 抗干扰性强,可任意位置,任意方向安装;
 - 传感器部分可脱离二次仪表独立使用,直接与测量板卡、PLC 或 DCS 组成扭矩测量装置
- Both static torque and rotated torque can be measured.
 - High Accuracy, Good stability, Strong anti-interference
 - Small Volume, Low weight, easy to install
 - Can continuously measure positive and negative torque without re-set zero
 - Without Collecting ring wear parts, can rotate with high speed for long time
 - Overload up to 150% FS
 - Strong anti-interference, can be installed at any position and direction
 - Sensor part can be used separately without indicator, and it can be connect with PLC, DCS Collecting Card as torque measuring device.

LT-102技术指标: Specifications

量程 Capacity	5Nm、10Nm、20Nm、50Nm、100Nm、200Nm、500Nm、1000Nm、2000Nm、5000Nm、10KNm、20KNm、30KNm、50KNm
供电电源 Power Supply	± 15V DC (适用频率信号输出)、 (Suitable for frequency signal output) 24V DC (适用电压或电流信号输出) Suitable for Voltage or Current output
扭矩信号 Torque Signal	5~15KHz (幅值12V,零点10kHz)、 4~20mA、1~5V、0~10V (可选) 5~15KHz ()
转速量程 Speed Capacity	0~1000、3000、6000、8000转/分 0~1000 3000 6000 8000 r.p.m
转速信号 Speed Signal	60脉冲/转(无累积误差,幅值12VDC)、 4~20mA、1~5V 60Pulse/revolution(without accumulated error, range 12VDC) 4~20Ma, 1~5V
精度 Accuracy	± 0.25%、± 0.5%
年稳定性 Stability per year	0.3%/年0.3%/Year
绝缘电阻 Insulation	≥200MΩ(100VDC)
环境温度 Environment Temperature	-20~60℃ (可定制高温型-20~120℃) Can custom high temperature -20~120℃
相对湿度 Relative Humidity	0~90%RH
过载能力 Overload	150%
频率响应 Response Frequency	1ms

应用领域 Application



■检测电动机、内燃机等旋转动力设备，输出扭矩及功率；
Detect rotating power equipment such as electric motors, internal combustion engine, the output torque and power;



■检测各种机械加工中心、自动机床的工作过程中的扭矩；
Detect various torque in process of mechanical processing center, and automatic machine work



■检测各种旋转动力设备系统所传递的扭矩及效率；
Detect various rotating torque and efficiency of the passed power equipment system



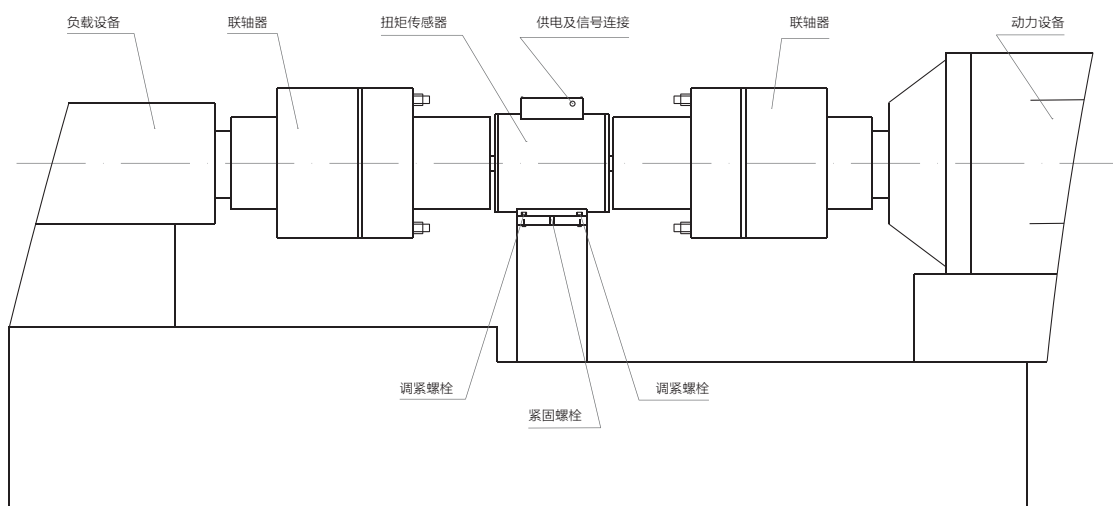
■可用于制造粘度计、电动、气动、液力扭力扳手；
Can be used in the manufacture of viscometer, electric, pneumatic, hydraulic torque wrench

尺寸对照表：

N.m	D	d	L	E	H	h	B	G	F	键 (长×宽×高) key (LxWxH)	备注note
5-100	78	18	188	28	111	54	72	10	70	26×6×6	单键 single
200	88	28	207	35	132	60	72	10	70	30×8×7	单键 single key
300-500	98	38	240	45	142	65	72	10	70	38×10×8	双键 Double key
1000	108	48	275	60	152	70	69	11	90	40×14×9	双键 Double key
2000	118	55	298	70	164	77	69	12	90	60×16×10	双键 Double key
3000-5000	143	75	356	100	189	90	68	14	146	93×20×12	双键 Double key
10K-20K	158	98	388	118	204	109	80	14	170	108×28×16	双键 Double key
30K	205	125	395	110	270	140	79	17	170	102×32×18	双键 Double key
50K	215	140	451	135	273	138	79	17	170	123×36×20	双键 Double key

注：本图尺寸仅供参考，详细尺寸以订货为准！

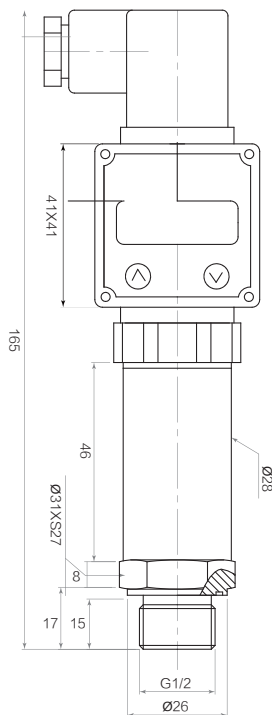
安装示意图：Install





液压传感器
Pressure Sensor/Transmitter

LT-9D



LT-9D规格参数 Specifications

量程 Capacity	0~10KPa~250MPa
精度 Accuracy	± 0.25%FS; ± 0.5%FS
供电电压 Excitation Voltage	24Vdc(9~36Vdc)
输出 Output	4~20mA
重复性 Repeatability	± 0.1%FS;
桥路阻抗 Bridge Resistance	1000 ohms ± 10%
温度范围 Temperature	-40 °C~105 °C
过载压力 Overload Pressure	1.5 × FS
电气连接 Electrical connection	DIN43650
过载阻抗 Load Resistance	1000 Ω@10~36Vdc
过程连接 Process Connection	G1/4;M14 × 1.5;M18 × 1.5; M20 × 1.5;G3/4
主要应用 Applications	水处理, 医药设备, 恒压供水设备 Mainly applied in water treatment, medical apparatus and instruments, and constant-voltage water supply system, etc.

输出类型 Output Type	功能 Function	颜色 Color		输出类型 Output Type	功能 Function	颜色 Color	
DIN43650 Output:0~5V	Power+	Red	1	DIN43650 Output:4~20mA	power+	Red	1
	Signal+	Blue	2		Power -	Black	2
	Power -/Signal -	White	3				

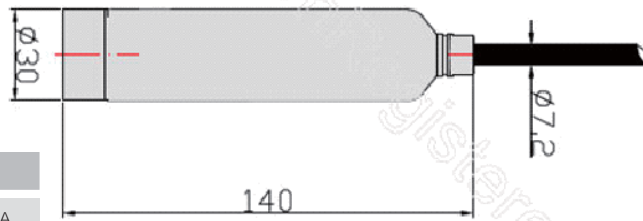
LT-9Y

LT-9Y规格参数 Specifications

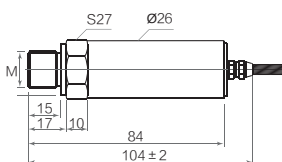
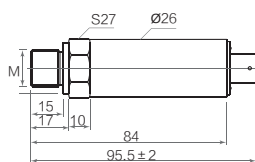
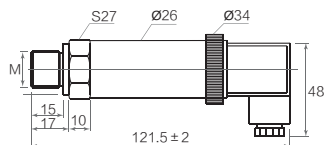
量程 Capacity	0~1mH ² O~200mH ² O
精度 Accuracy	0.5%F.S
供电电压 Excitation Voltage	9~36VDC
输出信号 Output Signal	4~20mA,0~10V,0~5V
阻抗 Load Resistance	3000~6000 ohms
过载压力 Overload Pressure	150%
温度范围 Temperature Range	-40 °C~125 °C
电气连接 Electrical Connection	通气电缆 Ventilation cable
过程连接 Process connection	投入式 Throw in type,法兰Flange, 螺纹thread screw, 或客户定制 or as custom
主要应用 Applications	泵站、深井、水库、洗煤、食品、医药、工业设备、过程控制等领域 Used for the application of level measurement for water plant, sewage treatment works, towers, water tank, coal mine, and exploration fields, etc.

电气连接 Electrical Connection

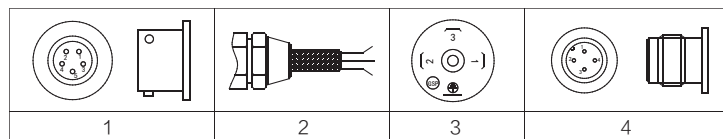
输出类型 Output Type	1~5V	0~5V	0~10V	4~20mA	4~20mA
功能 Function	Excitation +	Excitation -	Signal +	Excitation +	Signal +
颜色 Color	红色 Red	黑色 Black	绿色 Green	红色 Red	黑色 Black



LP-9T



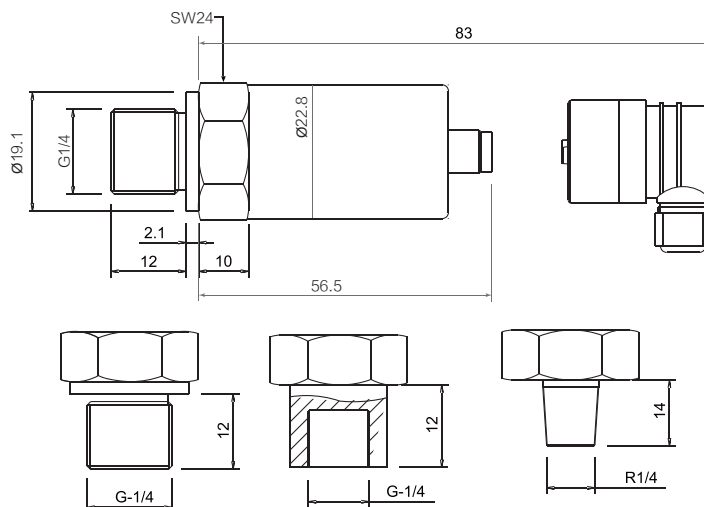
几种常见电气接头 Electrical Connection



LP-9T规格参数 Specifications

量程 Capacity	0~0.2bar~1600bar
综合精度 Accuracy	0.25%FS; 0.5%FS; 1%FS
非线性 Nonlinearity	0.2%FS
重复性 Repeatability	0.05%FS
输出信号 Output	4-20mA (两线制), 0-5V; 0-10V (三线制); 4-20mA (2 wires), 0-5V; 0-10V (three wires)
供电电压 Power Supply	24(12-36)VDC
工作温度范围 Working Temperature	-20~80℃
补偿温度范围 Compensate Temp	0~65℃
过载压力 Overload	150%FS
介质材料 Media Materials	压力接头材质为不锈钢, 外壳材质为不锈钢或硬铝可选择 Stainless steel for Connector, Stainless steel or Aluminum for Case.
防护等级 电气连接 IP Class, Electrical Connection	赫斯曼 (DIN43650), 外壳防护IP65; 防水格兰, 外壳防护IP68; 航空插件, 外壳防护IP45; DIN 43650 IP65, Water-proof glad, IP68, Connector IP45
过程连接 Process Connection (M)	G1/4, G1/2, 1/2NPT, 1/4NPT, M12 × 1.5 or custom as request
主要应用 Applications	气 / 液压力测控系统、工业设备、医疗设备、制冷设备、恒压供水、过程控制等领域 Process control system, liquid level measurement, gas compressors lubrication systems, natural gas production, chemical processing, waste water treatment, pulp & paper processing, oil production, recovery and others.

LP-9S



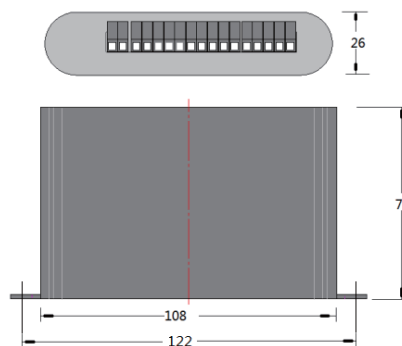
LP-9S规格参数 Specifications

量程 Capacity	0-5KPa, 10MPa, 100MPa
精度 Accuracy	0.25%; 0.5%
输出信号 Output Signal	4-20mA (二线制)、0-5VDC、0-10VDC (三线制)
供电电压 Power Supply	18-33VDC
介质温度 Medium Temperature	-30℃~+85℃
环境温度 Environment Temperature	-20℃~+65℃
稳定性 Stability	±0.1%~±0.2% FS/Year
安全过载能力 Safe Over Load	150%
极限过载能力 Ultimate Over Load	200%
温度漂移 Temperature Shift	0.1%FS/10℃
外壳材料 Housing Material	Stainless steel 不锈钢
可选接口螺纹 Process Connection	内7/16UNF、G1/4、1/4NPT or as custom
电器连接 Electrical Connection	Direct cable 1m; Hirschman connector or as request



变送器/放大器
Transmitter/Amplifier

L-600型多功能智能变送器



端口定义 Connection



产品描述

高速数据采集、多种方式的滤波处理、线性处理、零位跟踪、自动清零等功能。

实时测量值比较输出。

峰值或谷值捕获功能及峰值比较输出。

模拟输出功能,可以选择 4~20mA 或者 0~10V、±5V。

通讯功能。对外提供一个 RS485 串口, 内部提供一个用于辅助设置的 TTL 串口。对外串口可以执行 Modbus-RTU 协议和自定义协议, 内部串口固定为 Modbus-RTU 协议, 并且是固定的波特率和数据格式。

可以使用本公司的智能传感器 (带 TEDS), 实现自动校准

Description

High-speed data acquisition, many filter processing ways, linear processing, zero tracking, automatic reset, and other functions.

Real-time measuring value comparison output

Capabilities of capture peak or valley value and Peak value comparison output

Analogue output: 4~20mA or 0~10V、±5V

Communication: offer 1pc RS485 serial port, and offer TTL serials port inside as auxiliary settings. RS485 can support Modbus-RTU protocol or custom protocol, inside serial port is set as Modbus-RTU protocol, and Baud rate and data form are also fixed.

Can use our TEDS smart sensors, and calibrate automatically

特点

采集性能: 24 位采集芯片, 5~3200Hz 采集速度。理论上 240 次采集速度时有效精度为 17~18 位。

传感器: 外供 5V、100mA, 5 线制带 TEDS 传感器 (兼容普通传感器)。

通讯口: RS485, 通讯速率 1200~115200, 通讯协议 Modbus-RTU 或者主动发送。

开关量输入输出: 1DI+3DO. 带光电隔离, 输出为 OC 输出, 200mA/24V。

模拟输出: 4~20mA (小于 500) 或者 0~10V/±5V 输出。

供电: 24V ± 10%DC, <200mA。(产品要单独使用一套直流 24V 电源)

使用环境: -20~70℃, 湿度 <90%RH (不结露)。

Features

Measurement performance: 24bit acquisition chip; acquisition speed: 5~3200Hz; Effective precision is 17~18bits when acquisition speed is 240Hz in theoretically.

Sensor: Power supply 5V, 100Ma, 5 Wires TEDS sensor (can be compatible with normal sensors.)

Communication port: RS485 serial port, communication speed: 1200~115200, communication serial port: Modbus-RTU or Unsolicited

Switch I/O: 1DI+ 3 DO, With photoelectric isolation, output is OC output, 200 mA / 24V.

Analogue Output: 4~20mA (less than 500) or 0~10V/±5V Output

Power supply: 24V (±10%)DC, <200mA

Operational environment: -20~70℃; humidity: <85 %RH (non-condensate).

LZ-700



LZ-700 规格参数 Specifications

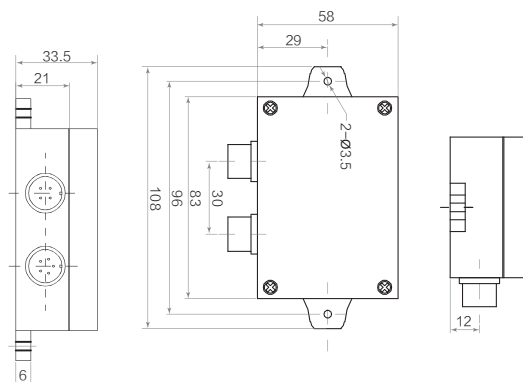
精度 Accuracy	0.1%
输入信号 Input Signal	0.5~30 mV/V
输出 output	0~5V, 0~10V, $\pm 5V$, 4~20mA
工作环境 Operation Environment	-20~50℃ $\leq 85\%RH$
动态响应 Dynamic Frequency	100Hz
电源 Power Supply	24VDC

LZ-700 可与各种电阻应变式、陶瓷压阻式、扩散硅压阻式传感器配套使用,实现对力、压力、重量、位移、扭矩、液位等物理量转换变送。可与我公司研发生产的各种传感器配套使用,其信号可直接输入计算机或测控仪等。

LZ-700 DC voltage transmitter/amplifier can work together with strain gages, ceramic piezoresistive sensors, and diffused silicon piezoresistive sensors which can realize the conversion and transmitting of physical quantity, such as force, pressure, weight, displacement, torque and liquid level. And the signal can be directly input in computers or other measurement and control instruments.

- 1、塑料外壳标准型
- 2、多种信号输出,方便用户需求
- 3、抗电磁干扰能力强,应用范围广
- 4、零点、满度可调整
- 5、可作重量变送器

- 1、Standard plastic housing
- 2、Multi choices of output signals to meet customers' requirements
- 3、Strong resistance to electromagnetic interference, and wide applications
- 4、Zero or full scale can be adjusted
- 5、Able to be used as weight transmitter, etc



LZ-700B

LZ-700B规格参数 Specifications

精度 Accuracy	0.1%
输入信号 Input Signal	0.5~30mV/V
输出 Output	0~5V, 0~10V, $\pm 10V$, $\pm 5V$, 4~20mA
工作环境 Operation Environment	-20~50℃, $\leq 85\%RH$
动态响应 Dynamic Frequency	100~2000HZ
电源 Power Supply	24VDC

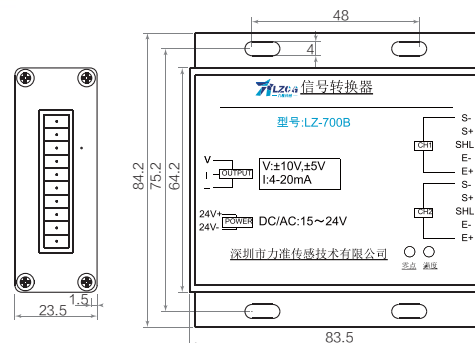
LZ-700B 信号转换器采用铝合金外壳,内部采用原装高性能器件,将接收的传感器信号进行精密放大、稳压、恒流供桥、电压电流转换,阻抗适配、线性补偿,温度补偿等。将力学量转换成标准的电流、电压信号输出,可直接与自动控制设备 PLC 连用。具备标准信号外调零、外调增益功能。输入过压保护和输出短路保护。LZ-700B 信号转换器为双路输入,单路输出,即可接两个传感器。

LZ-700B signal transmitter is assembled with aluminum housing and high performance original components. Transmit and compensate signal while received. Transmitting force signal to standard current /voltage signal, and can directly connect with PLC and other automatic equipment. Zero and Span is adjustable at outside, has input and output overload protection. LZ700B has 2 input ports and 1 output port and can connect 2 sensors.

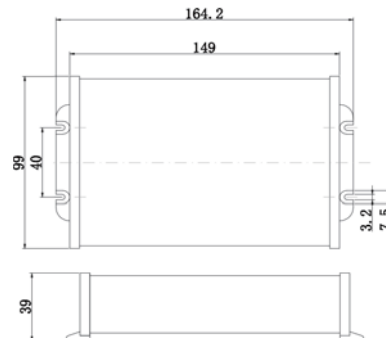


- 1.金属外壳
- 2.多种信号输出,方便用户需求
- 3.抗电磁干扰能力强,应用范围广
- 4.零点、满度可调整
- 5.可作重量变送器使用
- 6.支持双通道同时使用

1. Aluminum Housing
2. Many choices of output signals and easy to use;
3. Strong resistance to electromagnetic interference, and wide applications;
4. Zero or full scale can be adjusted;
5. Able to be used as weight transmitter, etc.
6. Two channels is available



L800型多通道智能变送器 L800 Multi-Channels Smart Transmitter



产品描述

L800 型 8 通道多功能智能变送器是一款高性能、高精度的快速数据采集产品,同时模拟量输出和通讯输出等多种功能。该模块安装方便,配合我公司生产的专用传感器,可适应于各种生产系统的力值测力与精密控制。

Description

L800 is 8-channel multifunctional smart transmitter, which is a fast data acquisition product with high performance, high precision and multi-functions such as analog output and communication output, etc..The module can be easily installed, and it is able to be adapted to all kinds of force value measurement and precision control for production system together with ourselves sensor.

主要功能

1. 高速数据采集、多种方式的滤波处理、线性处理、零位跟踪、上电清零、通讯清零、按键清零等功能。
2. 模拟输出功能,可以选择 0~10V、±5V。
3. 通讯功能。对外提供一个 RS485 串口和一个 RS232 串口,对外串口可以执行 Modbus-RTU 协议和主动上传。
4. 校准功能。可以使用通讯砵码校准和通讯数字校准。
5. 可以使用本公司的智能传感器 (带 TEDS),实现自动校准。

Main Function

1. Multi-functions such as high-speed data acquisition, a variety of ways of filtering processing, linear processing, zero tracking, automatically zero when power-on, communication reset, keypad zero, and etc.
2. Analog output function: optional 0~10V or ±5V.
3. Communication function: RS485 serial port and a RS232 serial port. And the external serial port can perform the Modbus RTU protocol and initatively sending.
4. Calibration function: May use communication calibration with weights and communication digital calibration.
5. Able to achieve automatic calibration with our smart sensors (with TEDS)

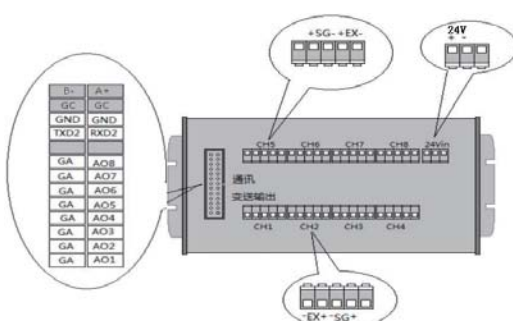
技术指标

1. 最多 8 路独立的采集通道,采集速度 50~3200Hz 可调,采集精度 12~18 位,滤波可调,可单独校准。
2. 传感器外供 5V/20mA
3. 两个串口,一个带隔离的 RS485 串口和一个无隔离的 RS232 串口。可以设置为 Modbus-RTU 或者主动 ASC 码发送。通过 Modbus-RTU 通讯可以设定所有参数,可以进行校准。
4. 带隔离的 8 路变送输出。输出可选 0~10V 或者 ±5V。
5. 具有零位跟踪、上电清零或者通讯命令清零等功能。
6. 可以通过通讯进行砵码标定或者数字校准。

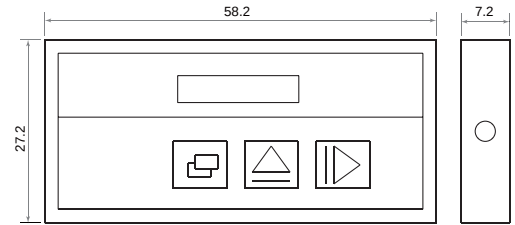
Technical Specifications

1. Up to 8 independent acquisition channels, adjustable acquisition speed from 50 to 3200Hz, 12~18bits acquisition accuracy, filter can be adjustable, can be calibrated individually.
2. External supply for sensors: 5V/20mA
3. Two serial ports: one non-isolated RS232 serial port and one isolated RS485 serial port. They can be set to the Modbus-RTU or actively send in ASC code. All parameters can be set by Modbus-RTU communication, and can be calibrated as well.
4. Transmitting output with isolated 8-channel, optional 0~10V or ±5V of output.
5. Has functions zero tracking, automatically zero when power-on, zeroing by communication command, and etc.
6. Able to execute calibration with weights or digital calibration through communication.

端口定义 Connection



L900



应用及特点 Application

目前最小的数字式测力仪表（俗称“小灵通”）！是传统模拟变送器更新换代产品。

- 1、简单称重测力。
- 2、串口通信，可选 modbus-RTU 通讯、主动上传。
- 3、高性能 OLED 汉字显示，温度适应范围宽、显示速度快。
- 4、具有上电清零、通讯清零、手动清零、自动零位跟踪等功能。
- 5、0-10V 或 $\pm 5V$ 模拟量输出（与通讯二选一）。

The smallest digital indicator, and can replace analogue transmitter.

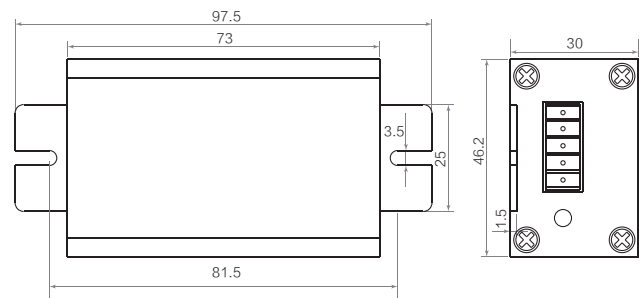
- 1、Simple Weighing and force measurement
- 2、Serial communication, Modbus-RTU is available, uploads data initatively
- 3、High performance OLED Chinese display, wide temperature, high display speed.
- 4、Automatic zero clearing when power up and by communication or by hand, automatic zero tracking
- 5、0-10V or $\pm 5V$ or Communication

技术参数 Technical Parameters

- 1、测量性能：24bit ADC 芯片，采集速度 5~1280，显示范围 -99999~999999，输入信号范围 $0 \sim \pm 20mV$
- 2、变送输出：12 位 DAC，0-10V 或 $\pm 5V$ 输出
- 3、通讯口：1 个非隔离 RS485 串口。
- 4、显示按键：96×16 点阵汉字显示，3 个按键操作。可以进行参数修改，砵码标定，数字校准等功能。
- 5、电源：直流型：24V($\pm 10\%$)、0.5A.
- 6、工作环境：-10~60℃ 35~60%RH

- 1、Measuring Performance: 24 bit ADC, Sampling Speed 5~1280HZ, Display Range: -99999~999999 Input Signal range: $0 \sim \pm 20mV$
- 2、Analogue Output: 12 bit DAC, 0-10V or $\pm 5V$
- 3、Communication Port: 1 isolated RS485 Port
- 4、Display keyboard: 96×16 dot-matrix chinese characters, 3pcs keyboard operation, can modify parameter, weight calibration, digital calibration
- 5、Power supply: 24V($\pm 10\%$)、0.5A.
- 6、Working Temperature: -10~60℃ 35~60%RH

L990



应用及特点 Application

- 1、高速数据采集，零位跟踪，自动清零功能
- 2、通讯功能。提供一个 RS485 串口，可选 modbus-RTU 通讯、主动上传。
- 3、按键恢复出厂设置。按 1 秒清零，10 秒恢复出厂设置。

- 1、High Speed data acquisition, zero tracking, automatic zero clearing
- 2、Serial communication: RS485, Modbus-RTU is available, uploads data initatively
- 3、Reset to factory by keyboard, It will reset to zero when press button for 1 second and reset to defaults when press button for 10 seconds.

技术参数 Technical Parameters

- 1、测量性能：24bit ADC 芯片，采集速度 5~1280，显示范围 -99999~999999，输入信号范围 $0 \sim \pm 20mV$
- 2、通讯口：1 个非隔离 RS485 串口，通讯速率 1200~115200，通讯协议 modbus-RTU 或者主动发送
- 3、电源：直流型：24V($\pm 10\%$)、0.5A.
- 4、工作环境：-10~60℃ 35~60%RH

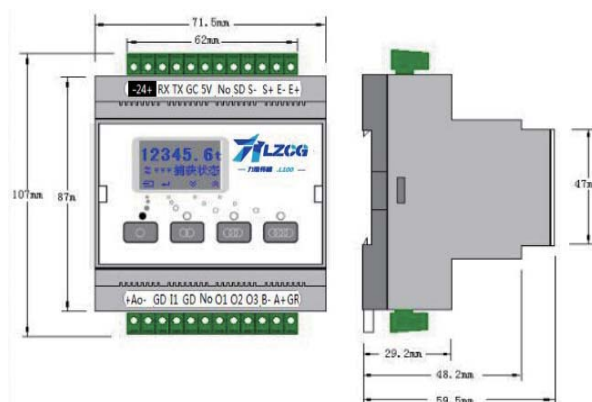
- 1、Measuring Performance: 24 bit ADC, Sampling Speed 5~1280HZ, Display Range: -99999~999999 Input Signal range: $0 \sim \pm 20mV$
- 2、Communication Port: 1 non-isolated RS485 Port, Communication Speed: 1200~115200, Communication port: Modbus-RTU or actively send
- 3、Power supply: 24V($\pm 10\%$)、0.5A.
- 4、Working Temperature: -10~60℃ 35~60%RH



控制仪表

Digital Control Indicator

L-100型通用力值测量仪表 L100 Universal Control Indicator



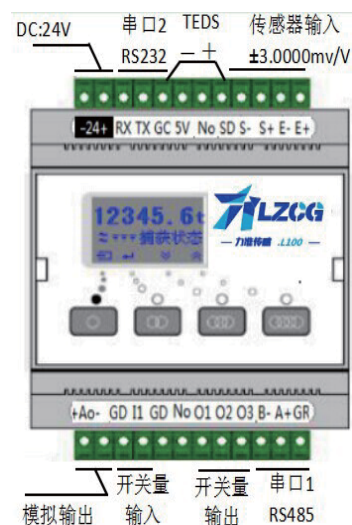
产品描述

- 1、简单称重测力、比较输出功能。
- 2、峰值捕获、峰值比较输出功能。
- 3、开关量输入输出可以定义。
- 4、高性能 OLED 或 LCD 汉字显示，温度适应范围宽、显示速度快。
- 5、具有上电清零、通讯清零、手动清零、自动零位跟踪或者蠕变跟踪等功能。
- 6、多串口通信，可选 Modbus-RTU 通讯、主动上传以及其他定制协议。
- 7、具有 TEDS 接口，与 TEDS 传感器配套可以实现自动校准。

Description

- 1、Simple weighing, force measuring, Comparing output function
- 2、Have Functions of Peak Capture, Peak Compare output
- 3、Can defined on-off input and output
- 4、High Performance OLED or LCD Display in Chinese word ,widely working temperature, High Display Speed
- 5、Have Functions of power on zero clearing, communication zero clearing, hand zero clearing, automatic zero tracking or creep tracking
- 6、Multi series communication: Modbus-RTU, Upload initiatively and other custom protocol
- 7、Have TEDS interface, can work with sensors with TEDS Can offer different kind of analysis, detect, or tracking control function according to customer request

端口定义 Connection



特点

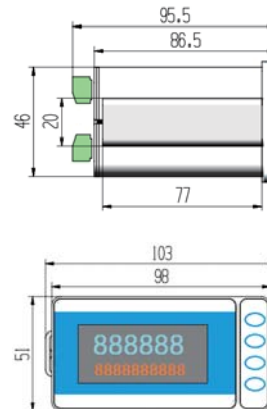
- 1、测量性能：24bit ADC 芯片，采集速度 50~3200 次，显示范围 -99999~999999，输入信号范围 0~±30mV。
- 2、变送输出：12 位 DAC，0~10V 或 ±5V 输出
- 3、通讯口：1 个非隔离的 RS232 串口，1 个隔离型 RS485 串口。
- 4、开关输入输出：3 路开关量输出，OC 输出方式、驱动能力 500mA/64V；1 路开关量输入。
- 5、显示按键：128×64 点阵汉字显示，4 个按键操作。
- 6、电源：直流型：24V(±10%)、0.5A。
- 7、工作环境：-10~60℃ 35~85 %RH

Features

- 1、Measuring Performance: 24bit ADC Chip, Sampling speed 50~3200Hz, Displaying Range: -99999~999999 Input Signal: 0~±30mV
- 2、Transmitting Output: 12bit DAC, 0~10V or ±5V
- 3、Communication Port: 1 Non-isolated RS232, 1 isolated RS485
- 4、On-off input and output: 3pcs on-off output, OC output, Drive capability 500mA/64V, 1pc on-off input
- 5、Display keyboard: 128*64 display of dot-matrix Chinese, 4pcs operating key-board.
- 6、Power: DC 24V(±10%)、0.5A.
- 7、Working temperature: -10~60℃ 35~85 %RH

L400型通用力值测量仪表

L400 Universal Force Value Measuring Module



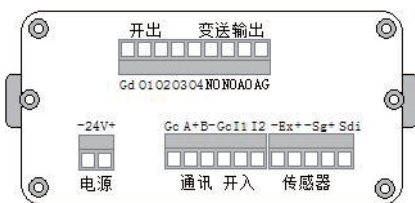
产品描述

- 1、简单称重测力、比较输出功能。
- 2、峰值捕获、峰值比较输出功能。
- 3、开关量输入输出可以定义。
- 4、RS485 通信，可选 Modbus-RTU 通讯、主动上传以及其他定制协议。
- 5、具有上电清零、通讯清零、手动清零、自动零位跟踪或者蠕变跟踪等功能。
- 6、三色段码 LCD 显示，温度适应范围宽、显示速度快。
- 7、具有 TEDS 接口，与 TEDS 传感器配套可以实现自动校准。
- 8、可以根据客户要求增加各种分析检测或者跟踪控制功能。

Description

- 1、Simple weighing, force measuring, Comparing output function
- 2、Have Functions of Peak Capture, Peak Compare output
- 3、Can defined on-off input and output
- 4、RS485 communication, with optional Modbus-RTU communication, actively send and other customized protocols.
- 5、Have Functions of power on zero clearing, communication zero clearing, hand zero clearing, automatic zero tracking or creep tracking
- 6、LCD display in three color segment code, wide temperature range, and fast display speed.
- 7、TEDS interface is allowed to achieve automatic calibration with TEDS sensors.
- 8、A variety of analyzing detection or tracking control functions can be added based on customer requirements.

端口定义 Connection



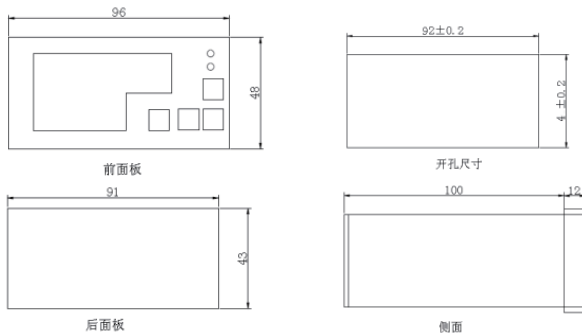
特点

- 1、测量性能：24 位采集芯片，采集速度 50~4800 次，显示范围 -99999~999999，输入信号范围 0~±30mV。
- 2、变送输出：12 位 DAC，0~10V、±5V 输出或 4~20mA。
- 3、通讯口：1 个隔离型 RS485 串口。
- 4、开关量：4 路开关量输出，OC 输出方式、驱动能力 500mA/64V；2 路开关量输入。
- 5、显示按键：双排段码显示，4 按键操作。
- 6、电源：直流型：24V(±10%)、0.5A。
- 7、工作环境：使用温度 -10~40℃，储存 -20~60℃，湿度小于 85 %RH(不结露)

Features

- 1、Measuring Performance: 24bit ADC Chip, Sampling speed 50~3200HZ, Displaying Range: -99999~999999 Input Signal: 0~±30mV
- 2、Transmitting output: 12bit DAC, 0~10V or ±5V or 4~20mA output.
- 3、Communication port: one isolated RS485 serial port.
- 4、Switch-value: 4 channel on off output, OC output mode, drive ability of 500mA/64V; 2 channels on off input.
- 5、Display key pads: double row segment code display and 4 function keys.
- 6、Power: DC 24V(±10%)、0.5A.
- 7、Operational environment: working temperature: -10~40℃; storage temperature: -20~60℃; humidity: <85 %RH (non-condensate).

LZ-800 控制仪表 Digital Control Indicator



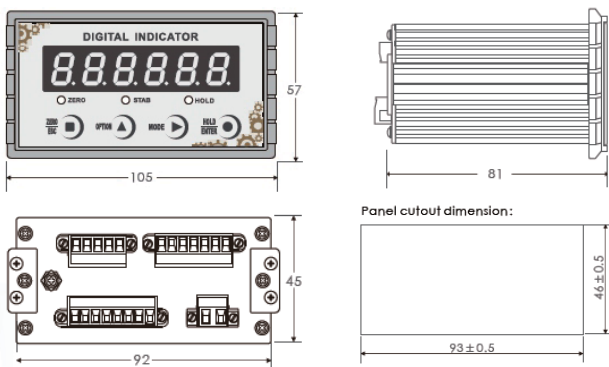
产品采用先进的集成电路技术,功能丰富而可以灵活配置,软件升级方便,先进的电源技术,使产品适合于大多数的工业环境。

With advanced integrated circuit technology, it has many functions and also, it's easy to be flexibly configured and update the software, and it is great to be suitable in the industrial environment.

LZ-800 TECHNICAL SPECIFICATION

使用条件 Working Environment	环境温度 Temperature: -20℃~70℃ 相对湿度 Relative Humidity: <90%
电源电压 Power Supply	AC85~265V 频率 Frequency 50Hz/60Hz or 直流 DC 24V
测量误差 Measurement Error	±0.5%F.S
桥路供电电压 Bridge Circuit Power Supply	9V, Max current 500mA
输出节点 Output Point	两路继电器, 负载 10A/250V 或 10A/30V Two relays, load at 10A/250V or 10A/30V
测量范围 Measuring Range	可采集正负信号并显示正负值 Collect plus and minus signal, and display plus or minus value
开孔尺寸 Perforation Size	92mm × 45mm
外壳 Case	塑料 Plastic
输出接口 Output Port	本配置为 RS232 串口可选配置为 RS485 串口、20mA 电流环串口、0-5V/1-5V/0-10V 模拟量、0-20mA/4-20mA 模拟量 Standard: RS232; Optional: RS485; 20mA; 0-5V/1-5V/0-10V analog; 0-20mA/4-20mA analog

LZ-801M 控制仪表 Digital Control Indicator



本产品是针对工业现场需要进行重量变送的场合而开发生产的一种小型重量显示器,具有体积小,性能稳定,操纵简单适用的特点。

This miniature weighting scales displayer is development for online industria weighting transform, it has small size, stable performance and easy operation characteristics.

LZ-801M TECHNICAL SPECIFICATION

使用条件 Working Environment	环境温度 Temperature: -20℃~70℃ 相对湿度 Relative Humidity: <90%
电源电压 Power Supply	直流 DC 24V ±0.5%
测量误差 Measurement Error	±0.1%F.S
桥路供电电压 Bridge Circuit Power Supply	5V, Max current 500mA
A/D转换速度 A/D Switching Speed	120/480/960 times/second
测量范围 Measuring Range	可采集正负信号并显示正负值 Collect plus and minus signal, and display plus or minus value
安装尺寸 Perforation Size	92mm × 46mm
外壳 Case	铝 Aluminum
输出接口 Output Port	本配置为 RS232 串口可选配置为 RS485 串口、20mA 电流环串口、0-5V/1-5V/0-10V 模拟量、0-20mA/4-20mA 模拟量 Standard: RS232; Optional: RS485; 20mA; 0-5V/1-5V/0-10V analog; 0-20mA/4-20mA analog

LZ-801S 控制仪表 Digital Control Indicator

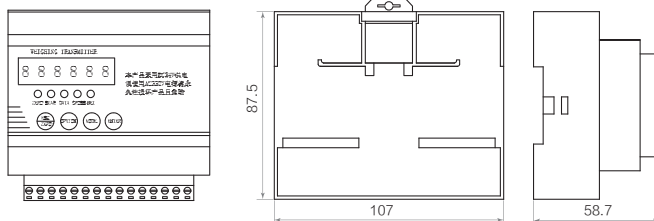


- 1、体积小、造型美观、方便适用
- 2、适用于所有电阻应变桥式称重传感器
- 3、前面板数字标定、过程简单，方便直观
- 4、数字滤波功能
- 5、自动零位跟踪功能
- 6、上电自动清零功能
- 7、双向隔离串行口功能，具有 RS232/RS485，方便与上位机通讯
- 8、可通过串行口标定称重显示器（串口标定开关打开）

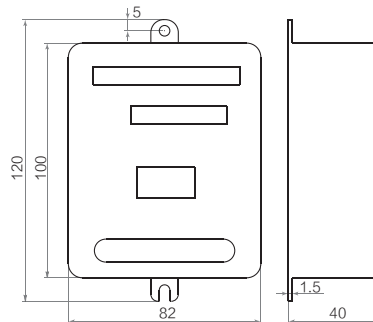
- 1、Small Volume,easy to use
- 2、Suitable for all strain gage sensors
- 3、Digital Calibration,easy to operate
- 4、Digital filter function
- 5、Automatic zero tracing function
- 6、Automatic zeroclearance for upper PC
- 7、Double isolate serial port,with RS232/RS485,easy to communicate with PC

LZ-801S技术参数 TECHNICAL SPECIFICATION

使用条件 Working Environment	环境温度 Temperature: -10℃~40℃ 相对湿度 Relative Humidity: ≤90%
电源电压 Power Supply	直流 DC 24V ± 5%
非线性 Non-linearity	±0.01%F.S
A/D转换速度 A/D Switching Speed	120/480/960 times/second
输出接口 Output Port	RS232/RS485
最高显示精度 Maximum Display Accuracy	1/300000
主要应用 Applications	混凝土搅拌及沥青混合料设备、冶金高炉、转炉及化工、饲料的重量控制等场合 Weight control of Concrete mixing and bitumen mixture equipments,equipments of converter or blast furnace burden,chemical industry.



L-240型通用力值测量仪表 Digital Control Indicator



产品描述 Description

L240 是四路力值通用测量仪表，可实现四路力值的快速测量、数字滤波、实时显示和通讯输出。该仪表为底板安装，正面插拔端子接线，体积小、安装接线方便。

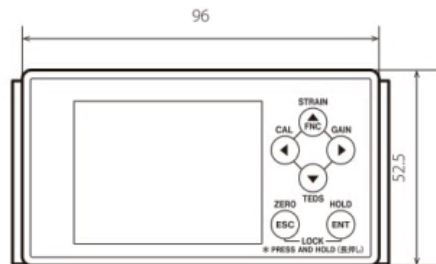
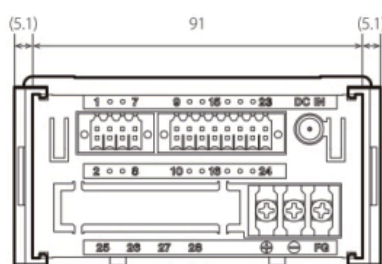
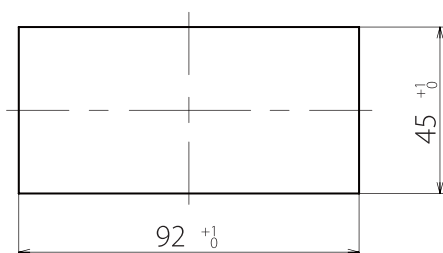
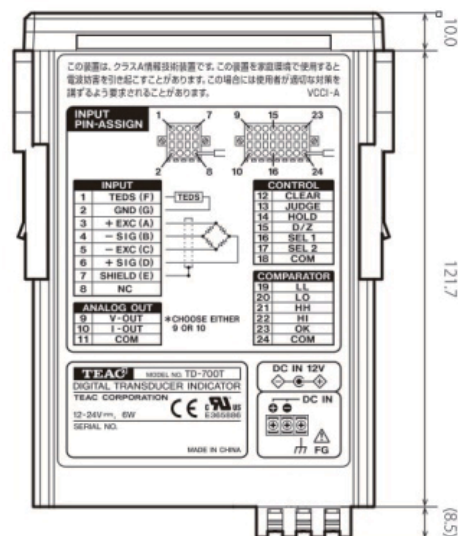
L240 is 4 channels digital indicator, it has 4 separate display value, communication and digital filter. Small volume, easy to install

L240技术参数 Technical Parameters

- 1、测量性能：24bit ADC芯片，采集速度50~2000次，显示范围-99999~999999，输入信号范围0~±30mV。
- 2、通讯口：1个隔离型RS485串口。
- 3、显示按键：128*64点阵汉字显示，4个按键操作。
- 4、电源：直流型：24V(±10%)DC。
- 5、工作环境：使用温度-10~40℃，储存-20~60℃，湿度小于85%RH(不结露)。

- 1、Measuring Performance: 24 bit ADC, Sampling Speed 50~2000Hz, Display Range: -99999~999999 Input Signal range: 0~±30mV ;
- 2、Communication Port: 1 isolated RS485
- 3、Display keyboard: 128*64 dot-matrix chinese characters, 4pcs keyboard operation
- 4、Power supply: 24V(±10%)、0.5A.
- 5、Working environment : -10~40℃, Storage Temperature: -20~60℃ (no condensation)

TD-700T 控制仪表 Digital Control Indicator



TD-700T 是我司代理日本“TEAC”公司的一款高性能控制仪表,其具有以下特点:

1. 五位数字显示,物理量的直接读取可达 ± 99999
2. 支持 TEDS 传感器,便于校准
3. 链接 TEDS 传感器时也可实现自动校准
4. 可进行静态应变测量。通过塑性形变易于识别称重传感器缺陷以及其他问题
5. 除了上限和下限比较功能,本仪表也支持上上限和下下限比较功能支持多种保持功能,包括峰值保持,谷值保持,峰值保持,峰值和谷值保持,平均值保持和带有区域制定的这些保持
6. 符合 ROHS 标准

TD-700T is a high-performance control indicator, which we deal in "TEAC" Company of Japan. It has following features:

1. Display five digits, can directly read up to ± 99999
2. Support TEDS sensors, easy to calibrate.
3. Has equal effect input function, it can adjust rated output without actual load.
4. Available for static strain measurements. Easy plastic deformation by the load cell to identify defects and other problems.
5. In addition to the upper and lower limit comparison function, this indicator also support of comparing function between the upper-upper and lower-lower limit. It has many functions, such as peak hold, valley hold, peak-peak hold, peak-valley hold, average hold and other designated area hold.
6. Be suitable to ROHS standard.

TD-700T技术参数 TECHNICAL SPECIFICATION

桥压 Bridge Voltage		10V DC, 2.5V $\pm 10\%$ (最大电流30mA) 30mA current maximum
信号输入范围 Signal input range		$\pm 3.2\text{mV/V}$
等效输入/TEDS Equivalent input/TEDS	校准范围 Calibration	0.3mV/V-3.2mV/V
	校准精度 Range	0.1%FS之内 (当使用1m长标准蒂雅克 $\Phi 8, 350\Omega$ 阻抗4芯屏蔽电缆, 10V桥压和不少于0.5mV/V的设置时) When using a 1m standard TEAC $\Phi 8, 4\text{-core}$ shielded cable with 350Ω impedance, 10V BV and 0.5mV/V or greater setting
精度 Precision	非线性 Nonlinearity	0.01%FS之内+1位(当输入不小于1mV/V时) Within 0.01%FS+1 digit (When input is 1mV/V or greater)
	零点漂移 Zero drift	0.5 $\mu\text{V}/^\circ\text{C}$ 之内(输入转换值) Within 0.5 $\mu\text{V}/^\circ\text{C}$ (input conversion value)
	增益漂移 Gain drift	$\pm 0.005\%$ FS/°C之内 Within $\pm 0.005\%$ FS/°C
A/D 转换率 A/D conversion rate		4000 times/second
数字滤波器 Digital filter		选择3 Hz (-6db/oct), 10, 30, 10, 300, 1000Hz (-12 db/oct) 或无 Select 3Hz (-6db/oct), 10, 30, 10, 300, 1000Hz (-12 db/oct) or none
D/A输出 D/A output		隔离的输出, 以1V为步长的0 $\pm 1\text{-}10\text{V}$ 电压输出或4-20mA Isolated output, 0 $\pm 1\text{-}10\text{V}$ voltage output 1V steps or 4-20mA current output 电流输出4000次/秒 4000times/scond
TEDS 功能 TEDS function		IEEE145.4类别2 混合模式接口 IEEE145.4 class 2 mix mode interface

TEDS系统构成

TEDS传感器一种即插即用的智能传感器(免标定), TEDS数字信号包含传感器制造商信息、产品型号和产品编号、传感器的测量范围, 传感器在出厂时的校正信息, 也可存储用户的信息, 它内部的存储器可以存储更多的信息。
 本公司的所有智能仪表、数字变送器均支持TEDS功能, 能实现传感器的即插即用。

TEDS Sensors is a kind of Plug and Play smart sensors (free of calibration)

TEDS includes sensor manufactory' s information, model, series number, sensor' s range, and calibration information of sensor before factory. It also can restore user' s information, and more information if request.

All our instrument and amplifier can work with TEDS sensors.

测量专用仪表, 采样 32 位 ARM CPU,OLED 汉字显示, 借助丰富的提示信息, 可在短时间内掌握正确的操作方法。

Measuring Instrument, use 32bits ARM CPU, OLED Chinese Display, can learn to operate it in short time with abundant information.

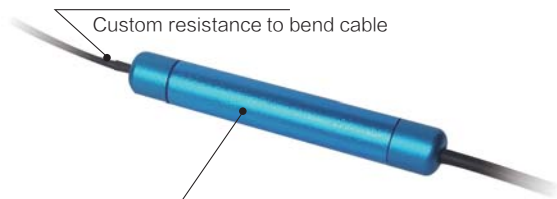


单台仪表同时完成四个检测点数据采集和处理。

4 Single Channels,measure and process all data of 4 channels at same time

专门定制的耐折弯电缆

Custom resistance to bend cable



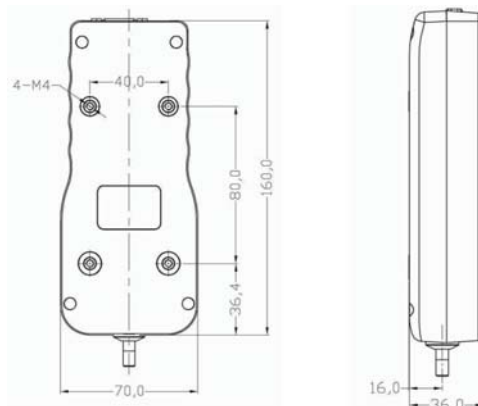
“即插即用”智能传感器, 大大简化现场校准工作量!

Plug-in smart sensors, simply calibration at spot



力准测力传感器
Force Sensor

LZ-D01通用型便携式测力计



产品描述 Description

LZ-D01 手持仪器具有高精度高分辨率; 2.8 寸真彩色显示屏; 曲线监控全测试过程; 上下限值设定; 开关量输出; 可存储 100 组测试报告, 1 组测试曲线; 三种单位 kg、N、lb 可切换; 测试材料强度功能; 峰值保持功能; 峰值自动解除功能及解除时间可设定; 无操作自动关机省电设计, 关机时间自由设定等功能。使用本仪器前请仔细阅读本说明书, 以便充分运用本仪器的所有功能, 同时避免误操作, 若因误操作造成的损失由使用方自行承担。

The LZ-D01 portable dynamometer has advantages of high accuracy, small size, light weight, easy to carry, multi-function and curve capture. It can be used in testing equipments, such as tension and compression force test, insertion force test, and destructive test, etc, and also can incorporate with different kinds of test equipments and clamps as small-sized testing instruments for different purposes.

特点 Features

- 1、2.8 寸 TFT 真彩色显示屏;
- 2、内置实时时钟, 能显示实时时间和日期;
- 峰值、实时值、和测试过程曲线同屏显示, 可监控和追溯测试全过程;
- 3、上下限偏差值自由设定、限内限外报警任意选择;
- 4、上下限两点独立继电器输出(选配)、蜂鸣器、显示屏同时提示报警;
- 5、方向按键、显示屏可 180° 翻转;
- 6、三种单位 N、kg、lb 自动换算;
- 7、具有峰值保持功能、峰值自动解除及解除时间可设定;
- 8、可永久保存 100 组测试报告, 测试报告内容有测试时间、峰值、谷值 平均值等, 还可保存 1 组曲线, 追溯测试全过程;
- 9、通过输入材料截面积测试材料强度;
- 10、可任意设置无操作自动关机、自动背光等省电功能;
- 11、内置图文说明、各种操作直观明了;
- 12、通过 PC 配套专用的测试软件, 可无限存储、传递、追溯测试曲线数据;
- 13、可选配微型打印机打印测试结果;
- 14、可配置各类测试机台、实现各种测试。

- 1、High accuracy and high resolution with 2.8 inch TFT true colour display;
- 2、Built-in real-time clock for displaying real time and date;
- 3、Deviation value (Max./Min.), and within/over tolerance limit warning function;
- 4、Optional independent relay output at Max.- and Min.- value, and alarm both in buzzer and screen display;
- 5、Direction keys and 180-degree rotating display screen;
- 6、Three measuring units in N (Newton), Kg (Kilogram) and lb (Pound) available;
- 7、Functions of Peak-value hold/automatic release and time clear;
- 8、Memory can store up to 100 sets of test with test time, peak value, valley value and mean value, and 1 set of curve record to trace the entire test process;
- 9、Function of testing material strength by input the section area of material;
- 10、Power saving function can be set as automatic power off if no operation or automatic backlight;
- 11、Built-in manual instruction with photos and texts;
- 12、Support PC software available for test data storage, print, and analysis, etc;
- 13、Optional mini printer available;
- 14、Suitable for different kinds of testing equipments.

应用 Applications

手持仪器是我公司设计的新一代通用型便携式测试仪器, 具有体积小、重量轻、易携带、多功能、高精度、曲线捕捉全测试过程等特点, 适用于各种产品的推拉力测试、插拔力测试、破坏性试验等, 并可结合各种测试机台和夹具组成不同用途的小型试验机。

Tension and compression force test
Insertion force test Destructive test
Testing equipments

